

FIG. 1

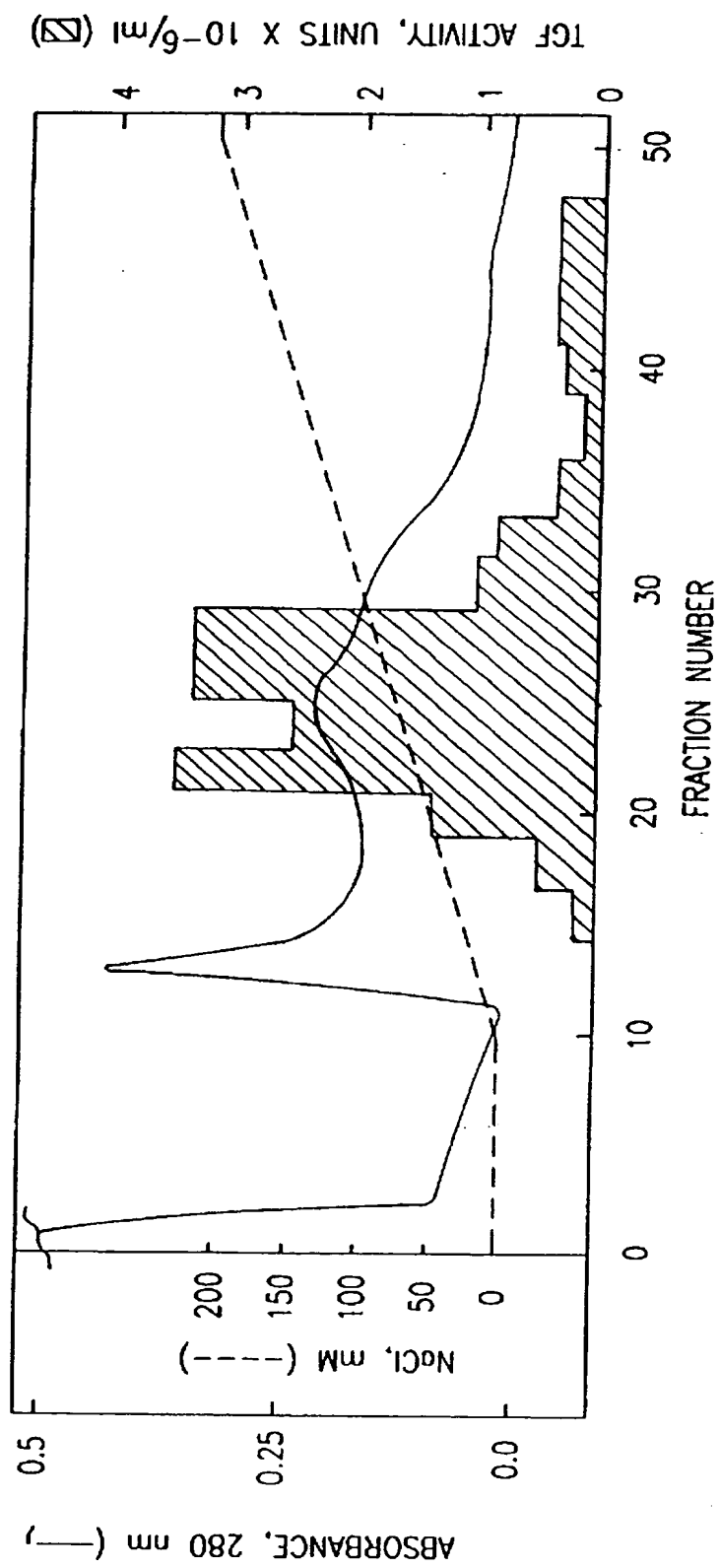


FIG. 2

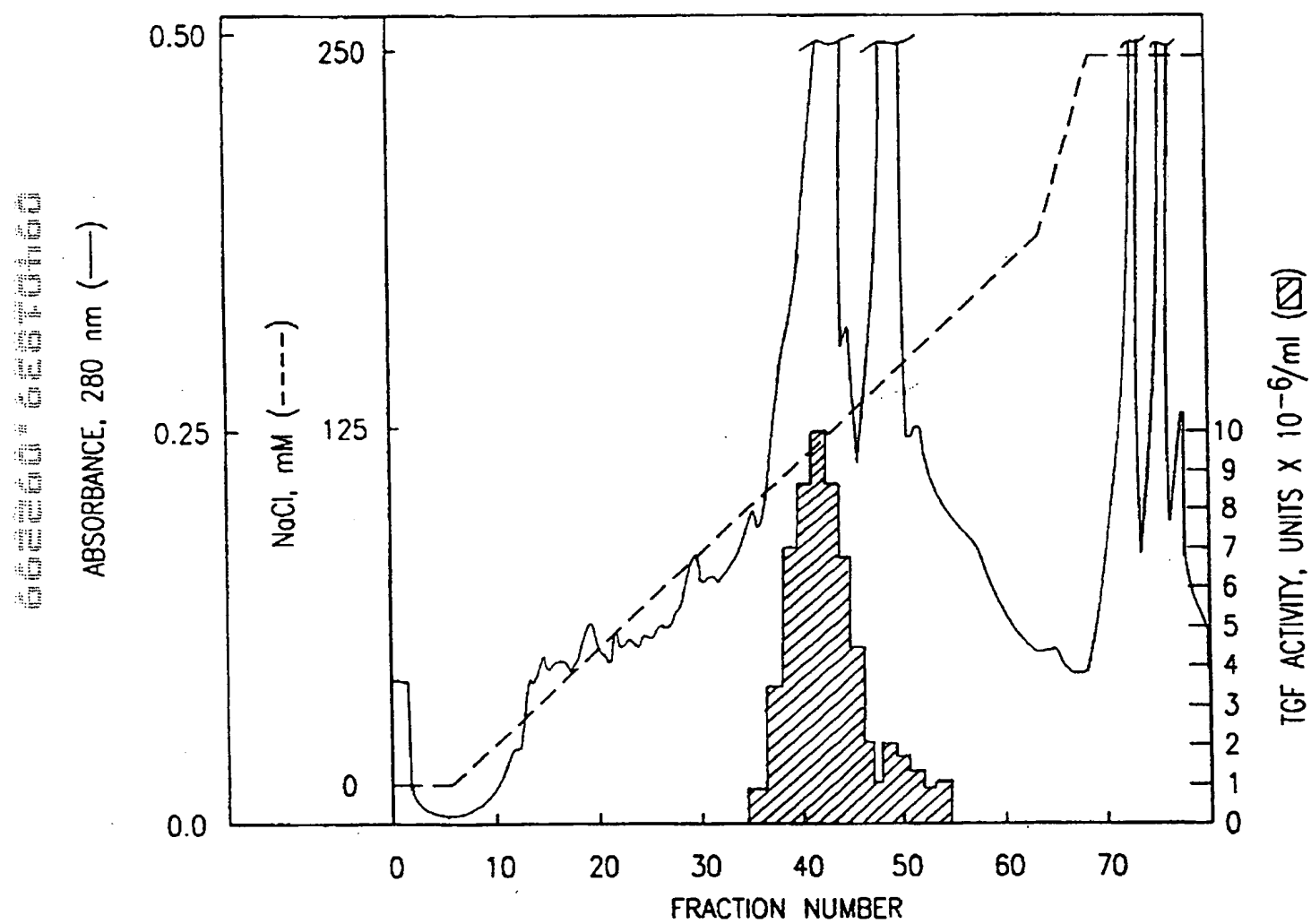


FIG. 3

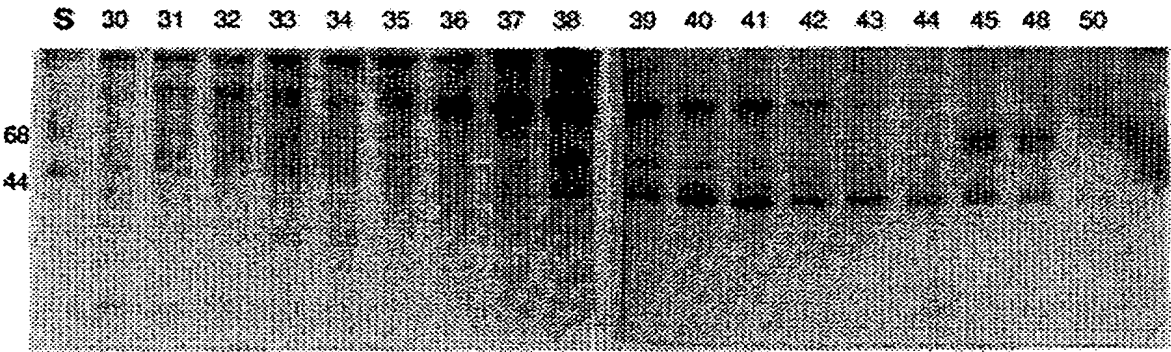


FIG. 4

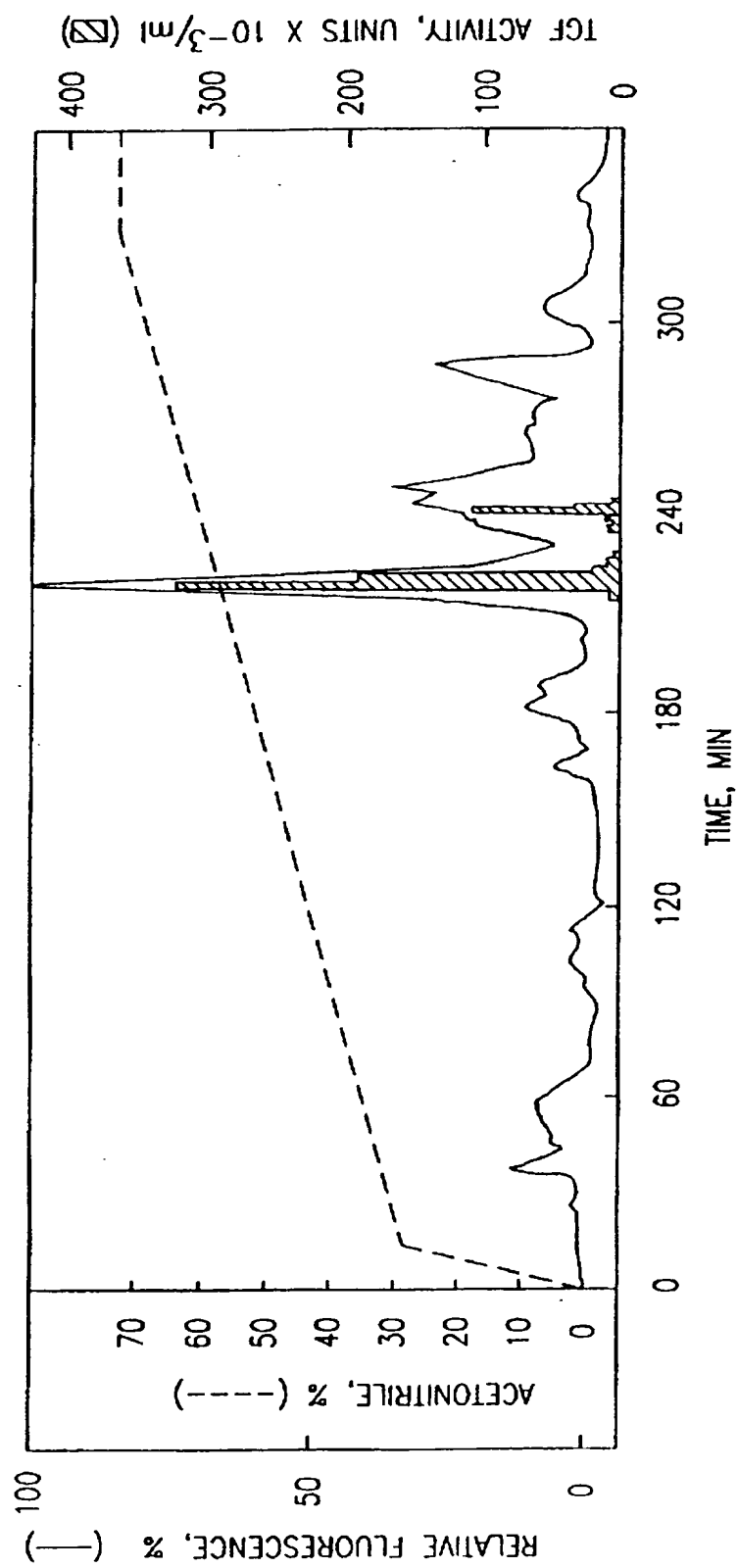


FIG. 5

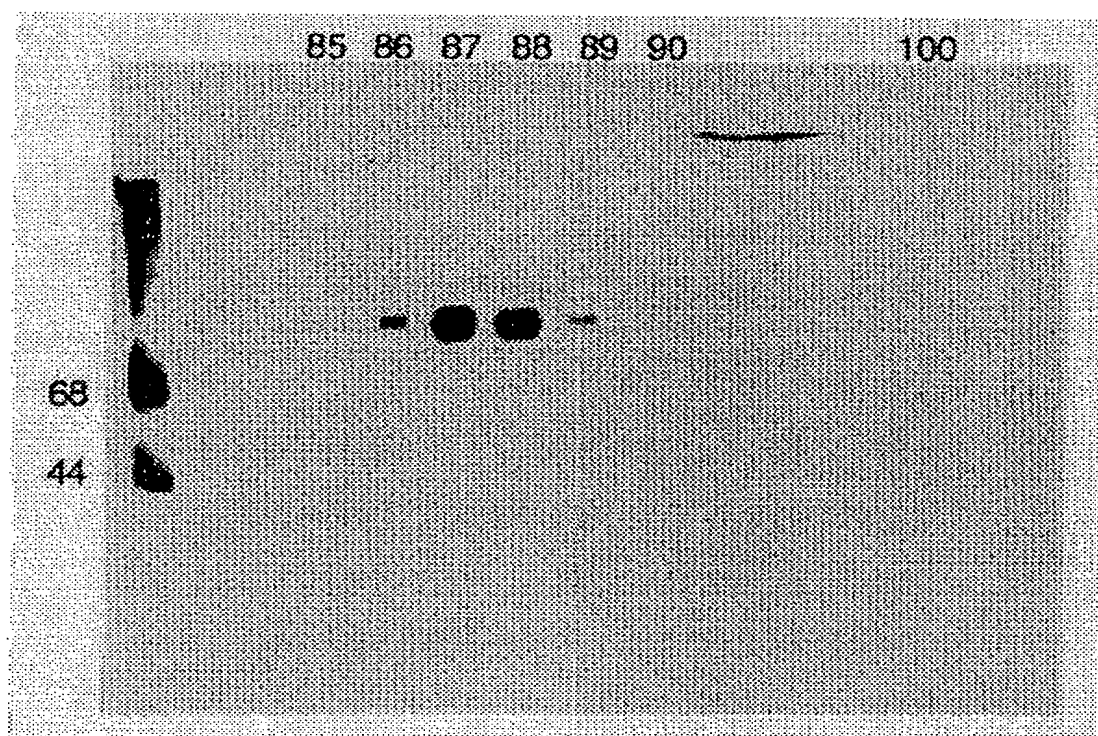
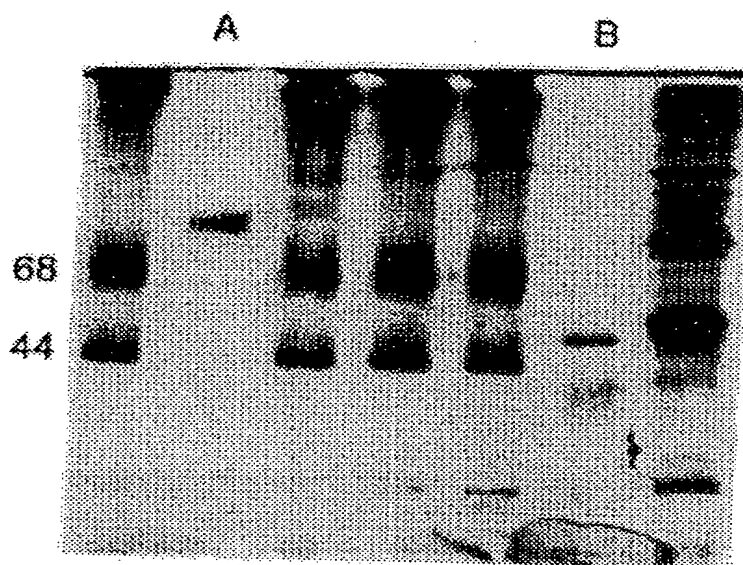


FIG. 6

**FIG. 7**

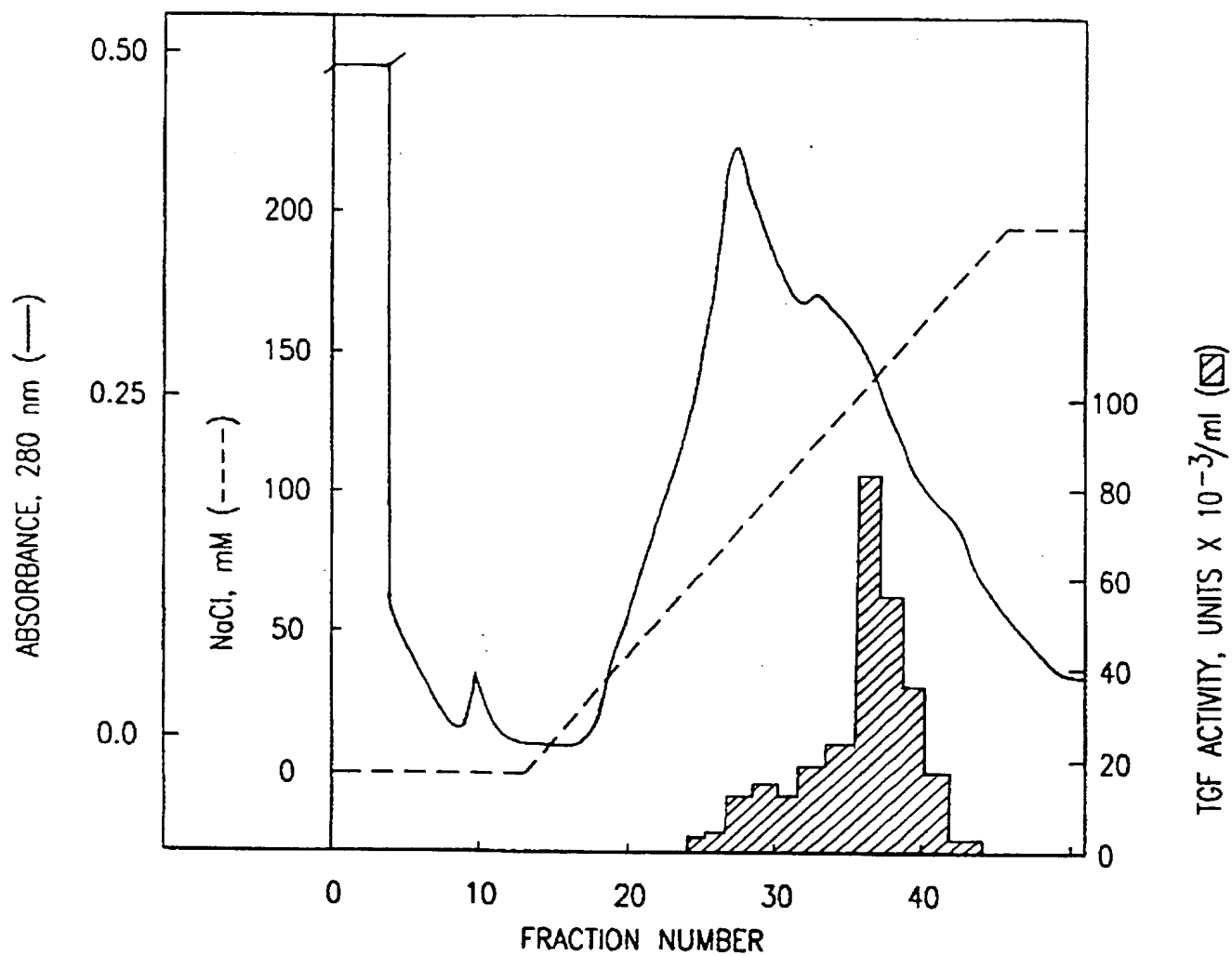


FIG. 8

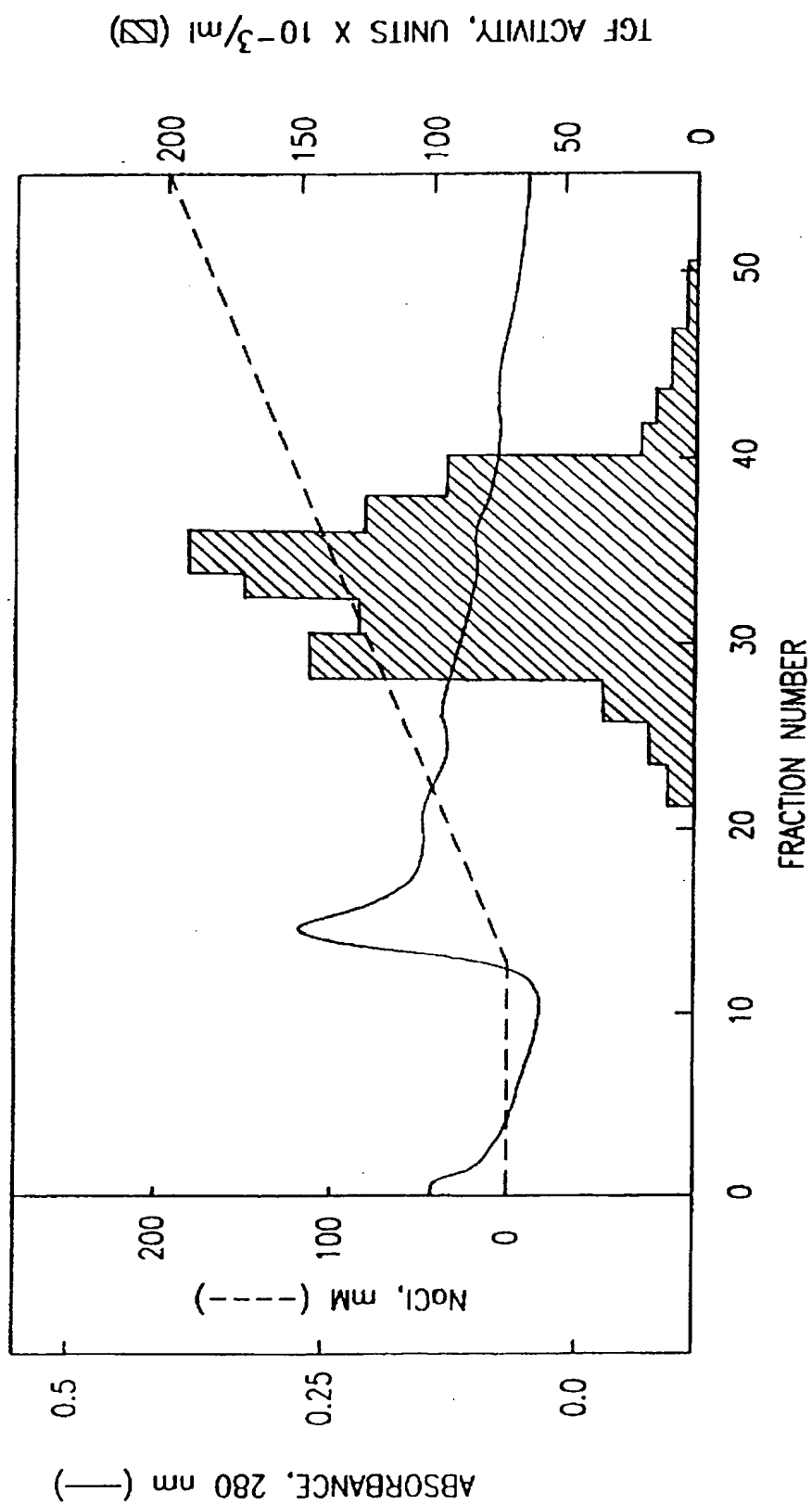


FIG. 9

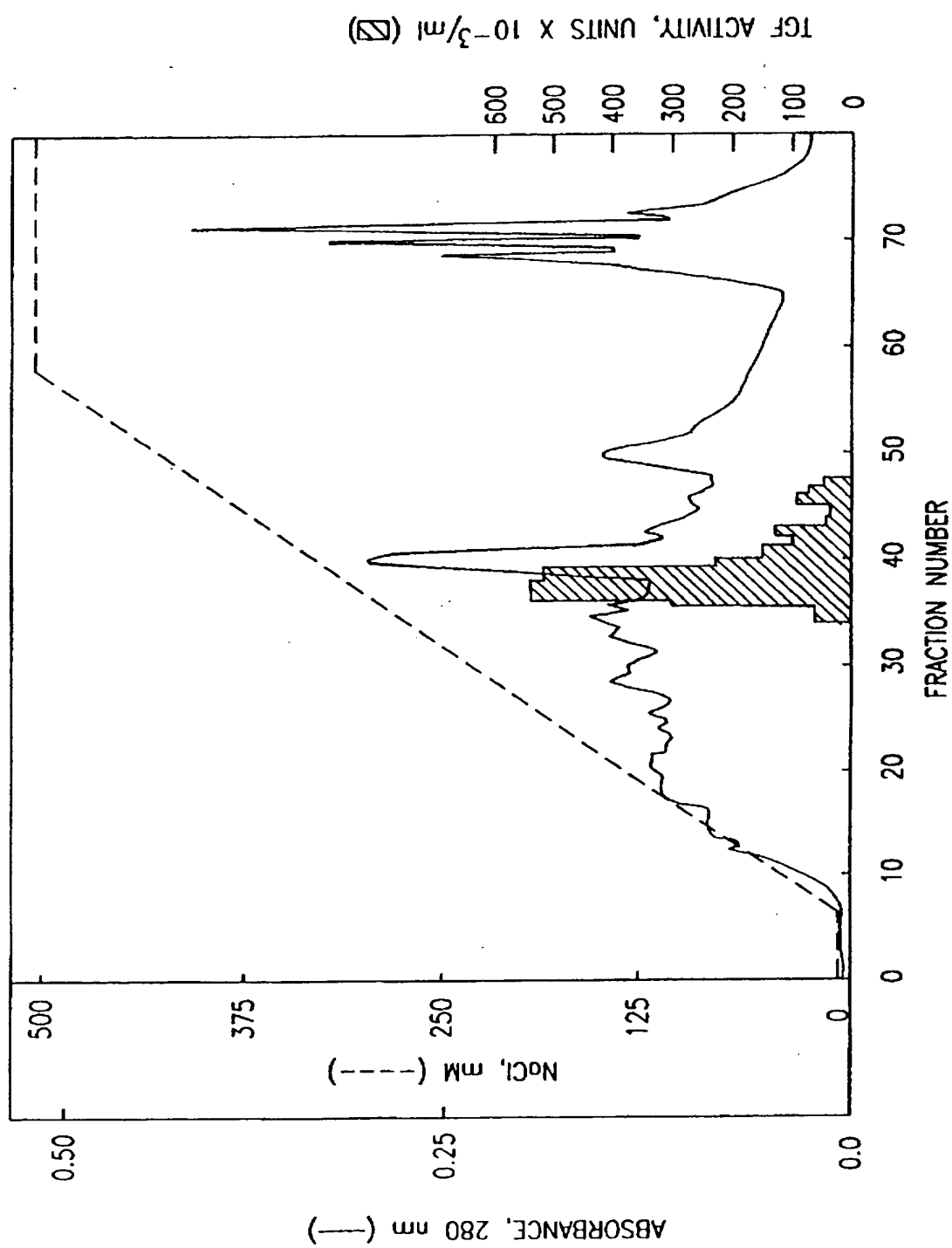


FIG. 10

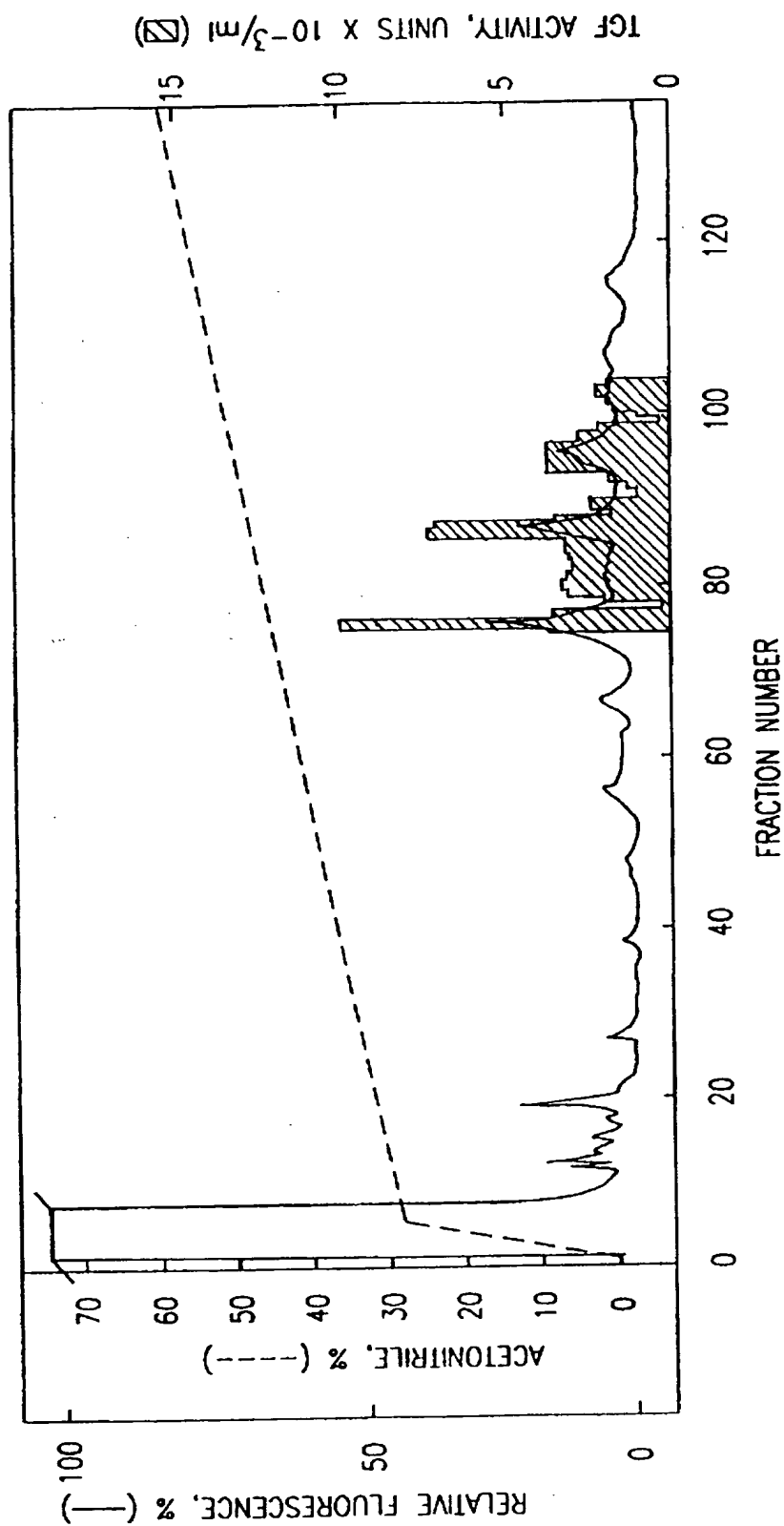


FIG. 11

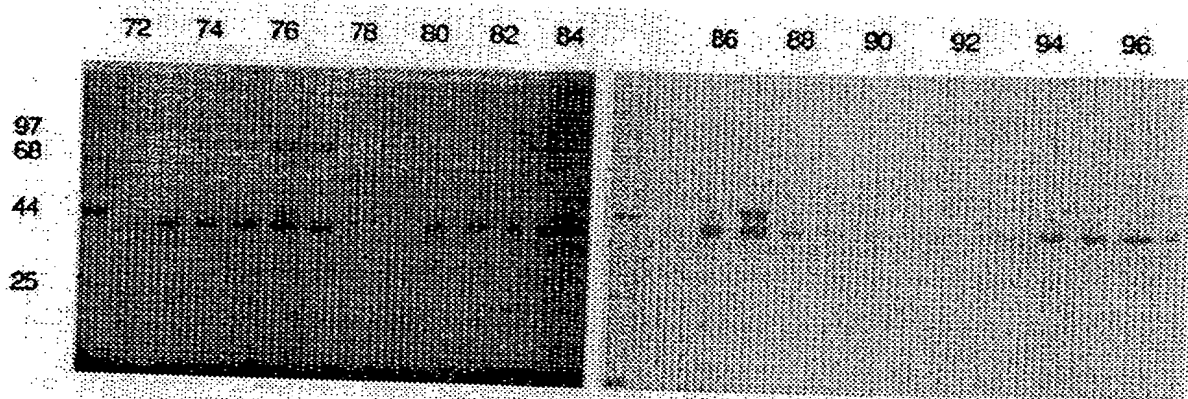
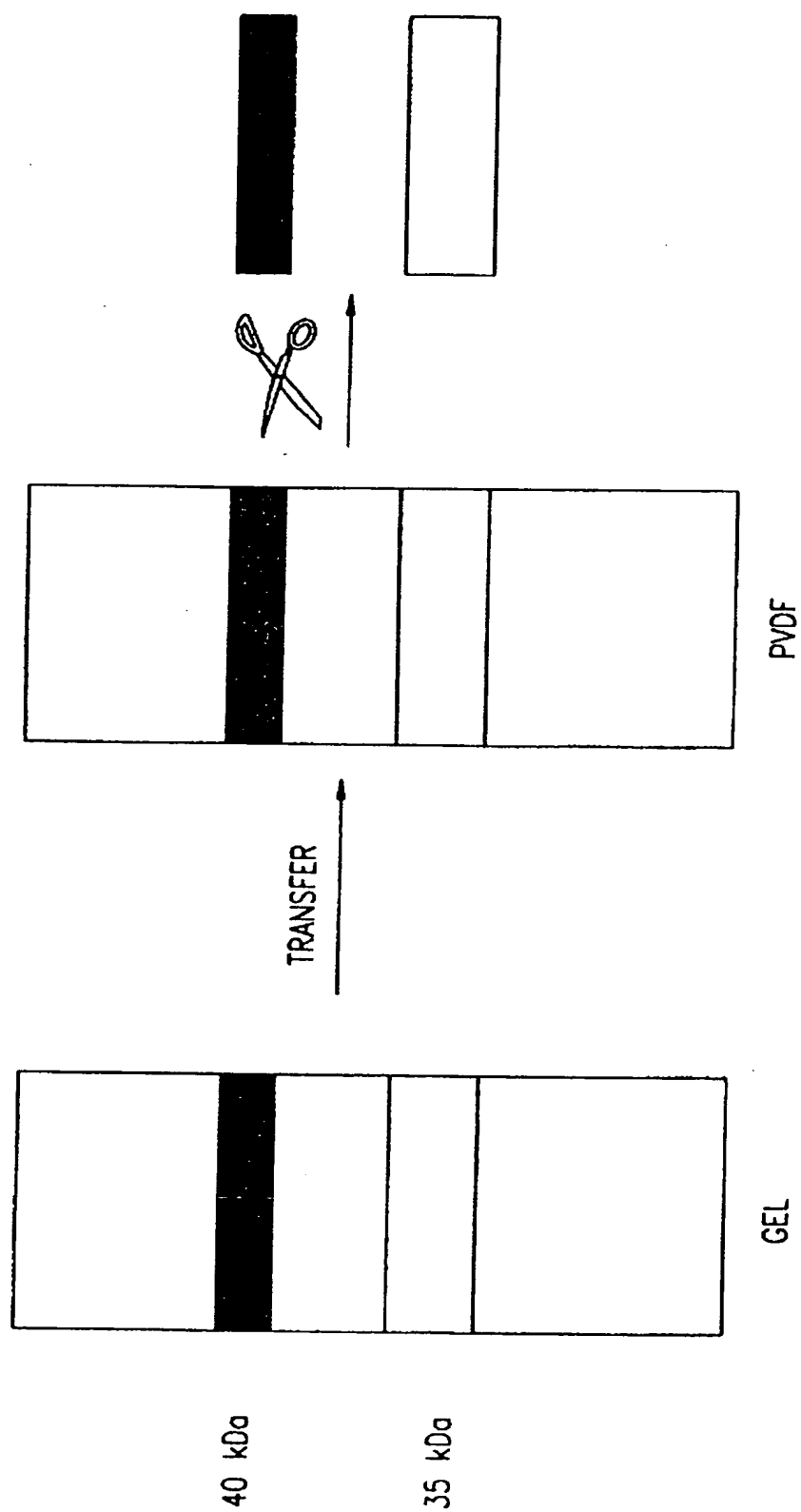


FIG. 12

**FIG. 13**

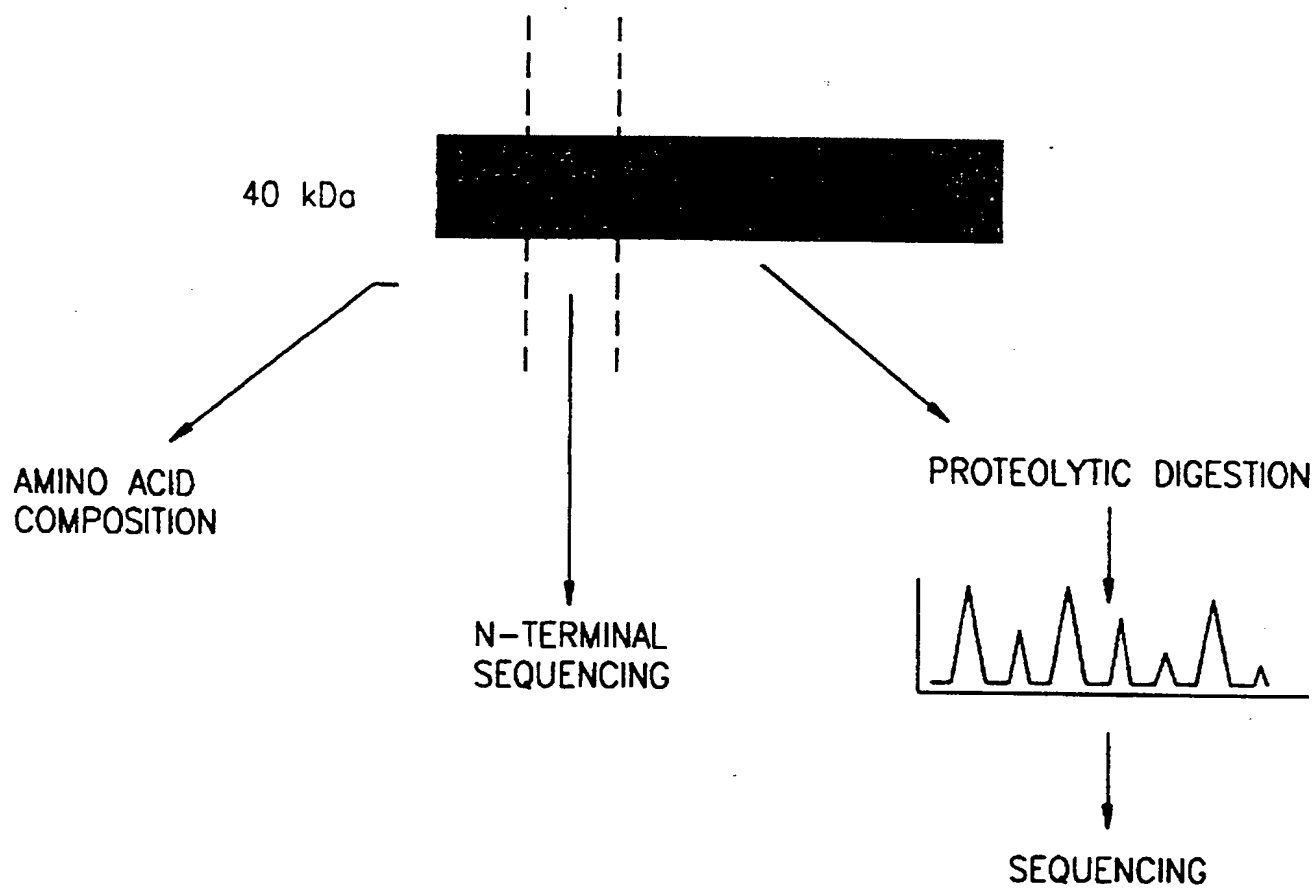


FIG. 14

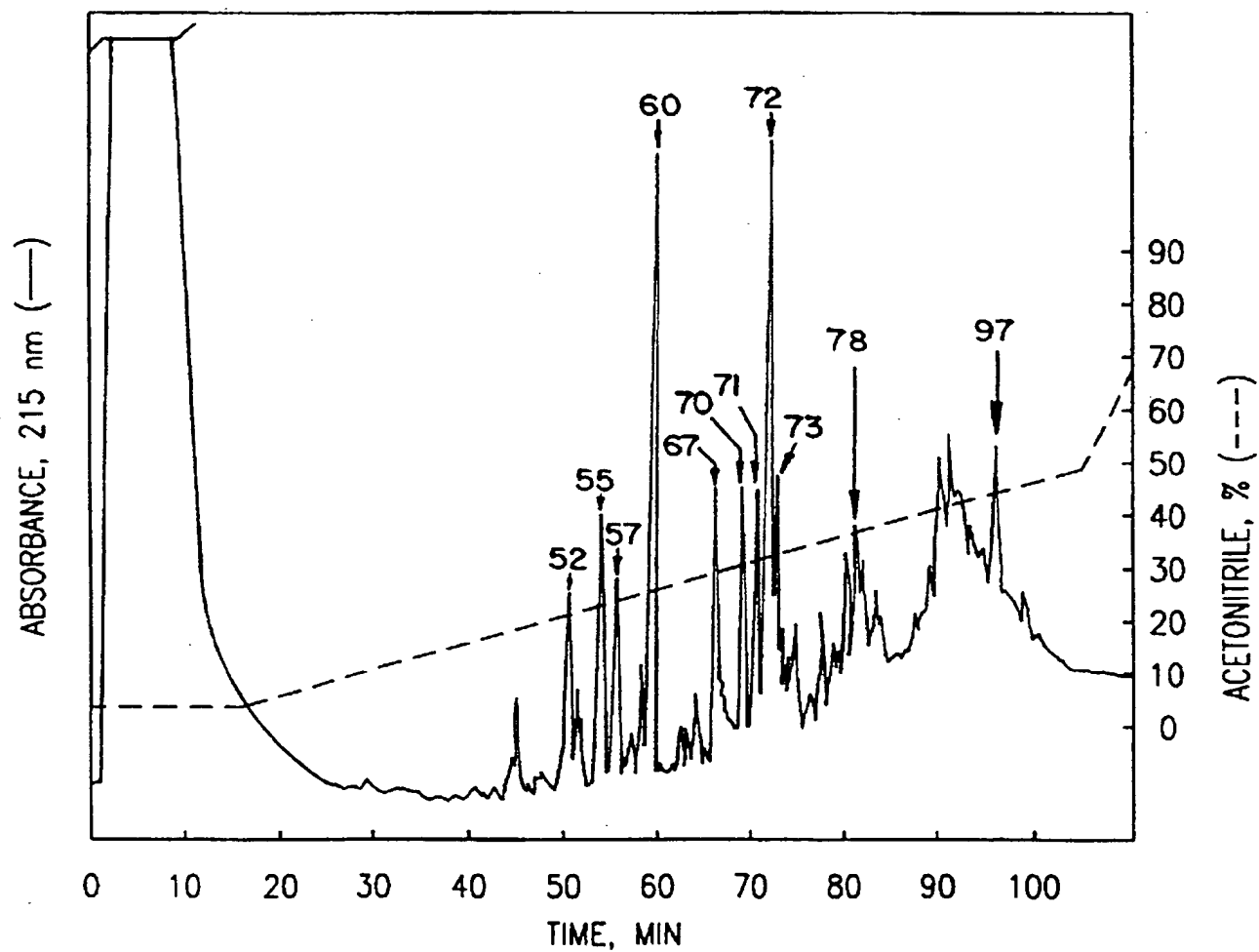


FIG. 15

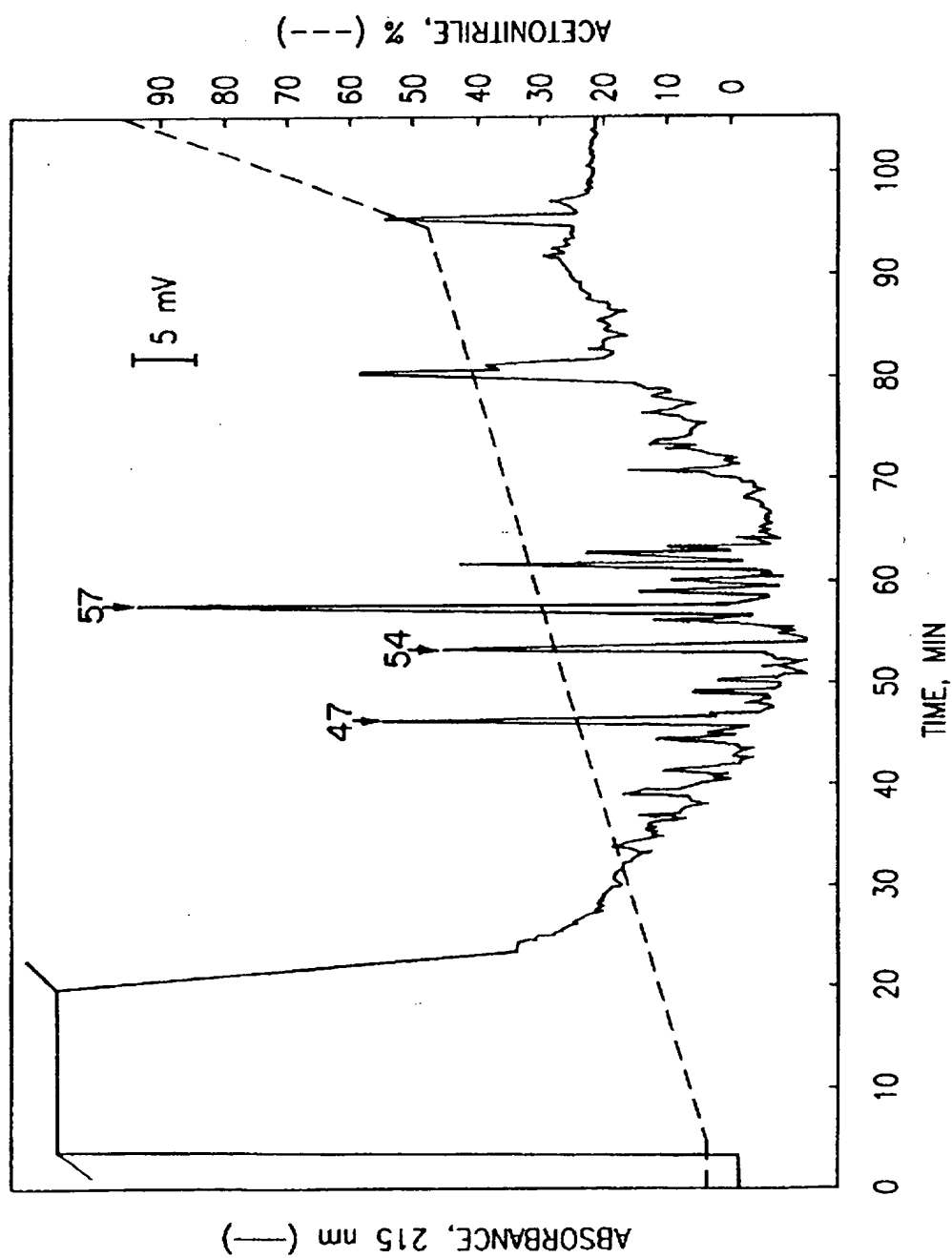
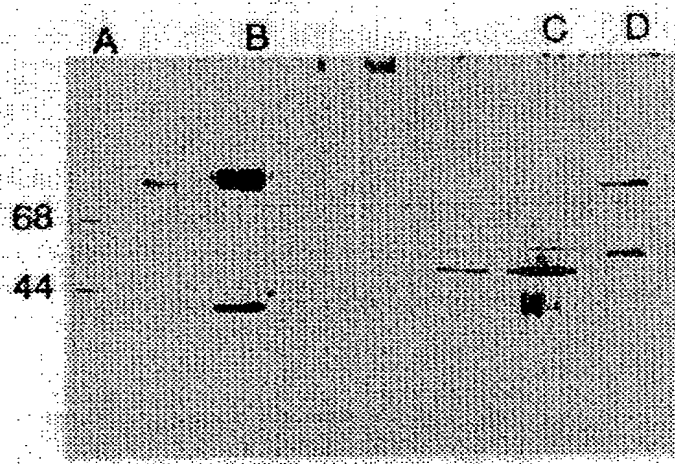


FIG. 16

	10	20	30	40
N-t	I-W-E-L-K-K-D-V-Y-V-E-L-D-W-Y-P-D-A-P-G-E-M-V-V-L-T-C-D-T-P-E-E-D-G-I-T-W-T-L			
Tr	f60			
V8	f47	f54	f57	
	50	60	70	80
Tr	D-Q-S-S-E-V-L-G-S-G-K-T-L-T-I-Q-V-K-E-F-G-D-A-G-Q-Y-T-C-H-K-G-G-E-V-L-S-H-S-L-L			
V8	f57	f57	f78	
	90	100	110	120
Tr	L-L-H-K-K-E-D-G-I-W-S-T-D-I-L-K-D-Q-K-E-P-K-N-K-T-F-L-R-C-E-A-K-N-Y-S-G-R-F-T-C			
Tr	f67	f52		
	130	140	150	160
Tr	W-W-L-T-T-I-S-T-D-L-T-F-S-V-K-S-S-R-G-S-S-D-P-Q-C-V-T-C-G-A-A-T-L-S-A-E-R-V-R-G			
	170	180	190	200
	D-N-K-E-Y-E-S-V-E-C-Q-E-D-S-A-C-P-A-A-E-E-S-L-P-I-E-V-M-V-D-A-V-H-K-L-K-Y-E-N			
	210	220	230	240
Tr	Y-I-S-S-F-I-R-D-I-I-K-P-D-P-P-K-N-L-Q-L-K-P-L-K-N-S-R-Q-V-E-V-S-W-E-Y-P-D-T-W			
	250	260	270	280
Tr	S-T-P-H-S-Y-F-S-L-T-F-C-V-Q-V-Q-G-K-S-K-R-E-K-K-D-R-V-F-T-D-K-T-S-A-T-V-I-C-R-K			
	290	300	306	
Tr	N-A-S-I-S-V-R-A-Q-D-R-Y-Y-S-S-W-S-E-W-A-S-V-P-C-S			
Tr	f67			
Tr	f72	f72	f55&f57	

FIG. 17

**FIG. 18**

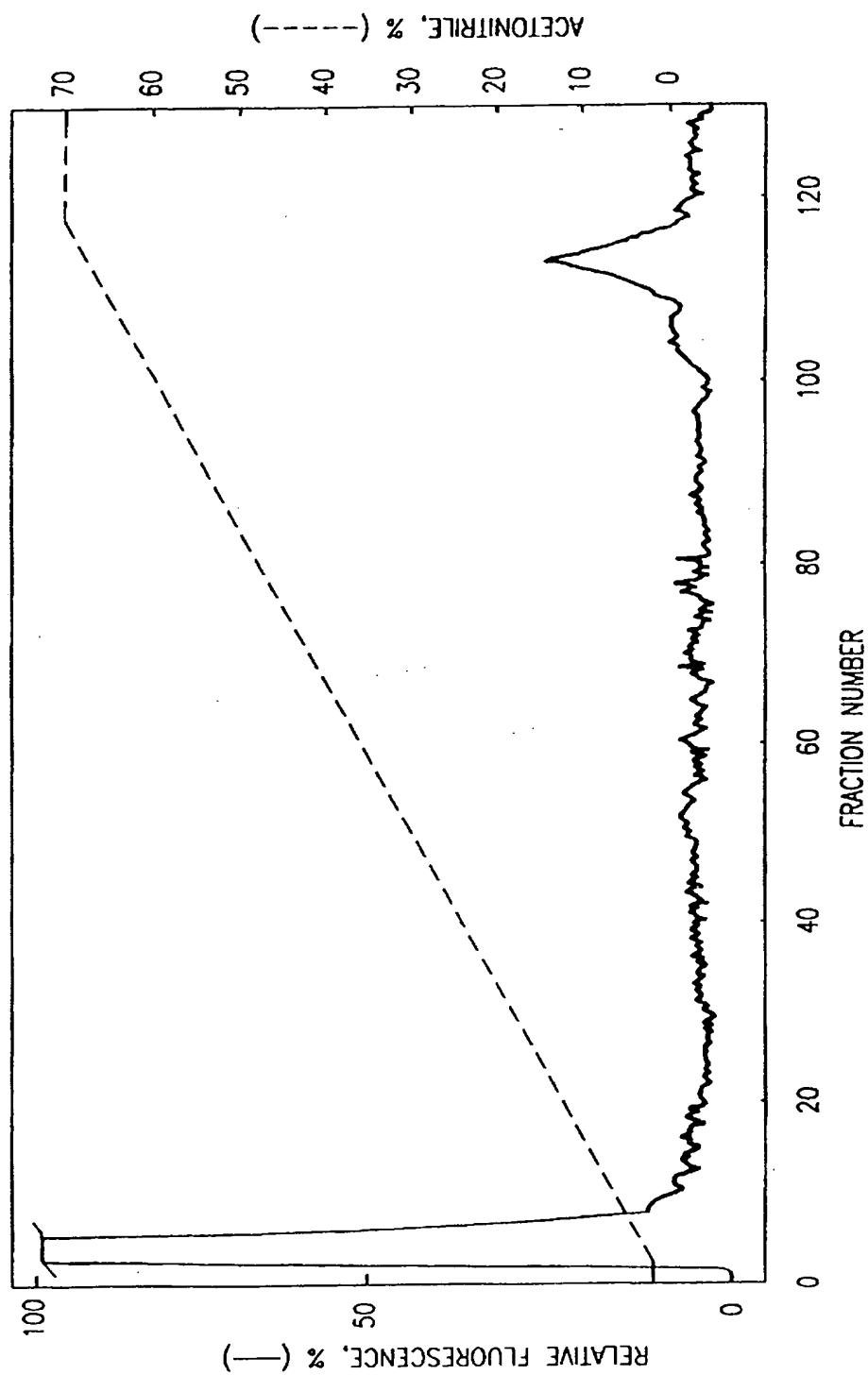


FIG. 19

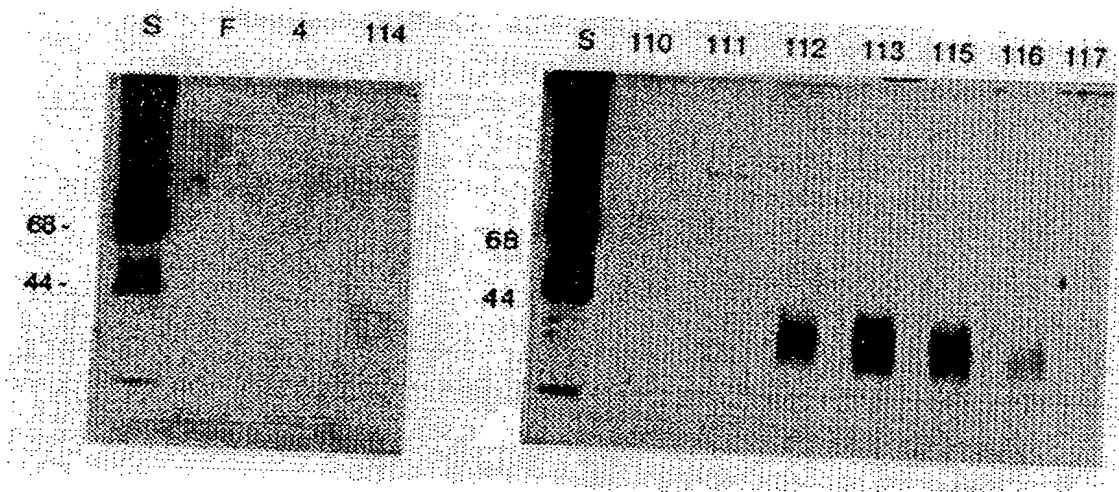


FIG. 20

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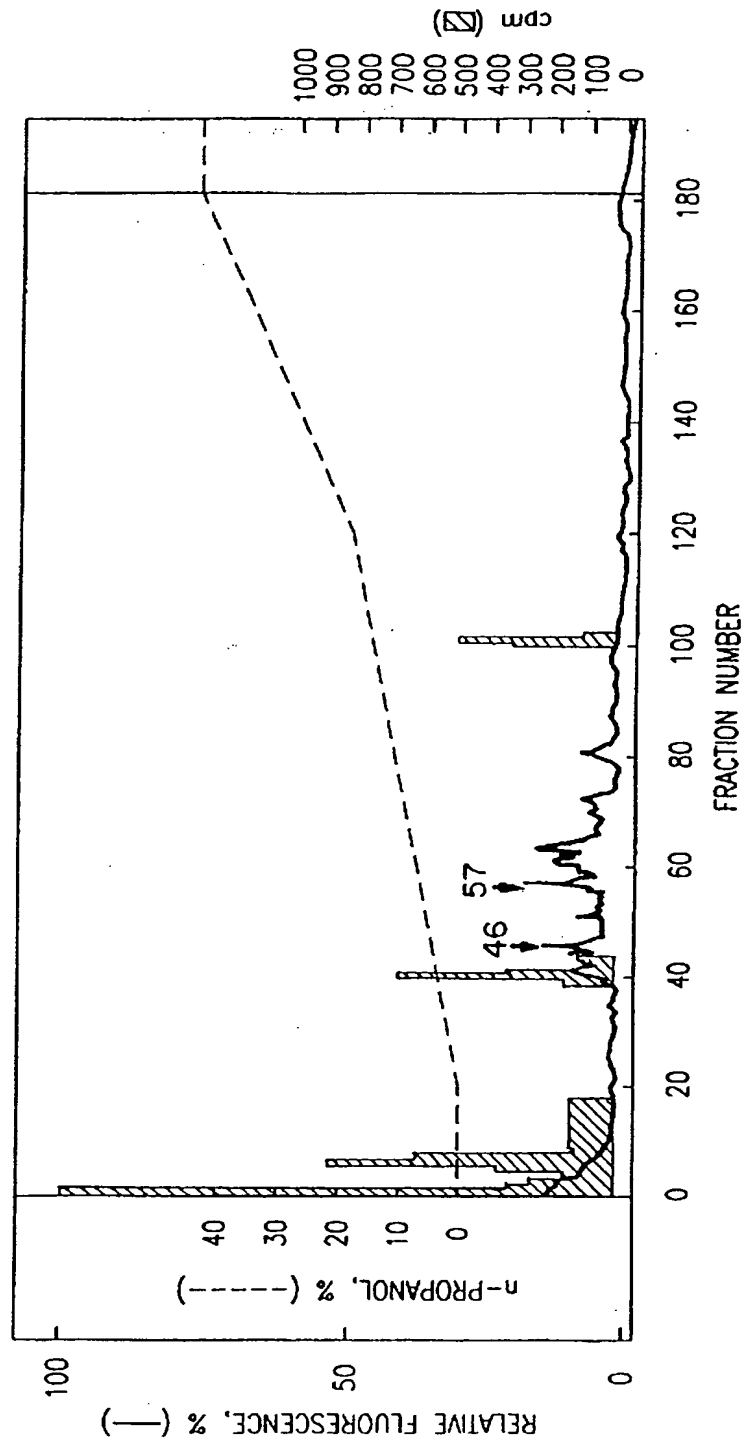


FIG. 21

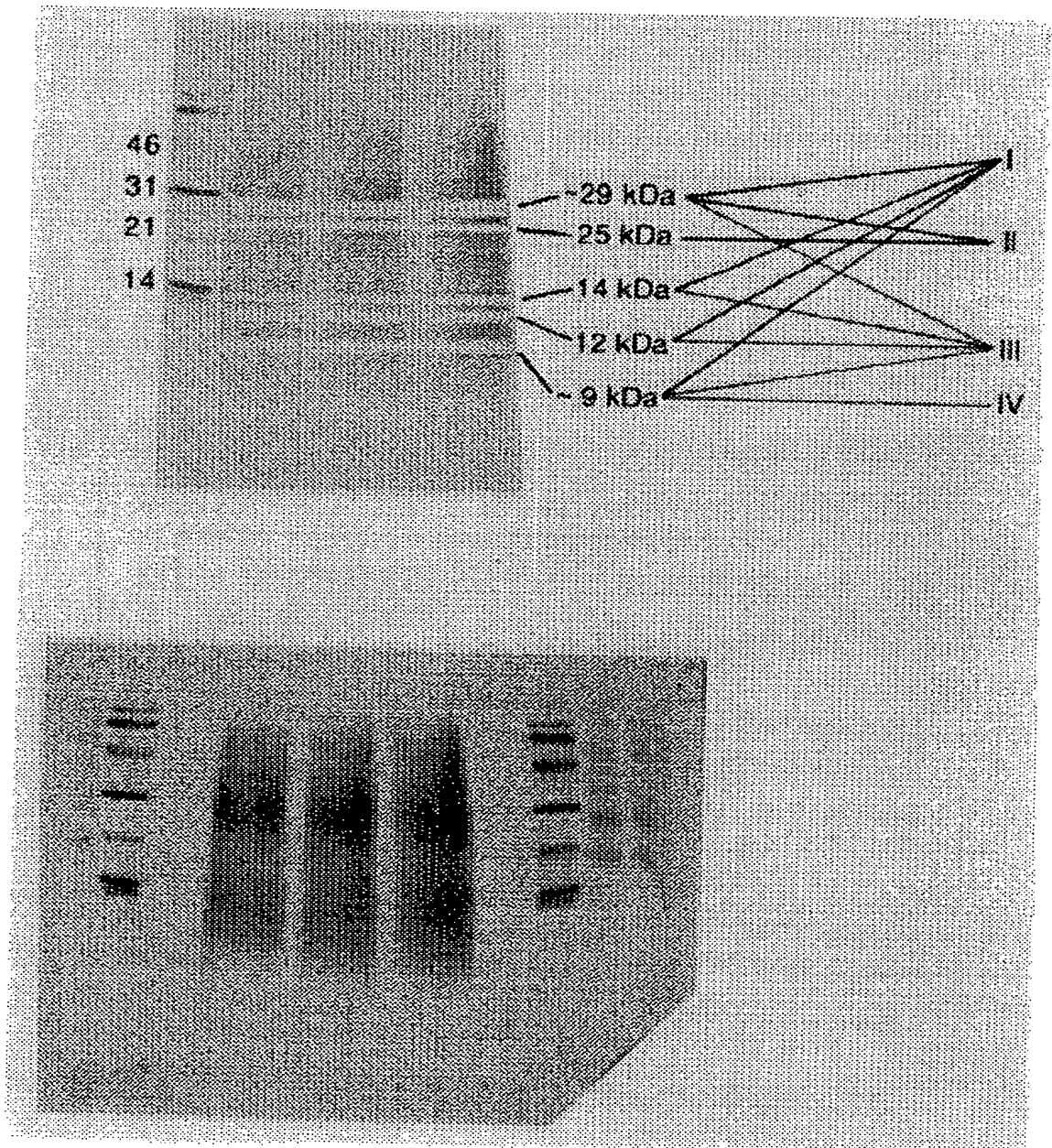


FIG. 22

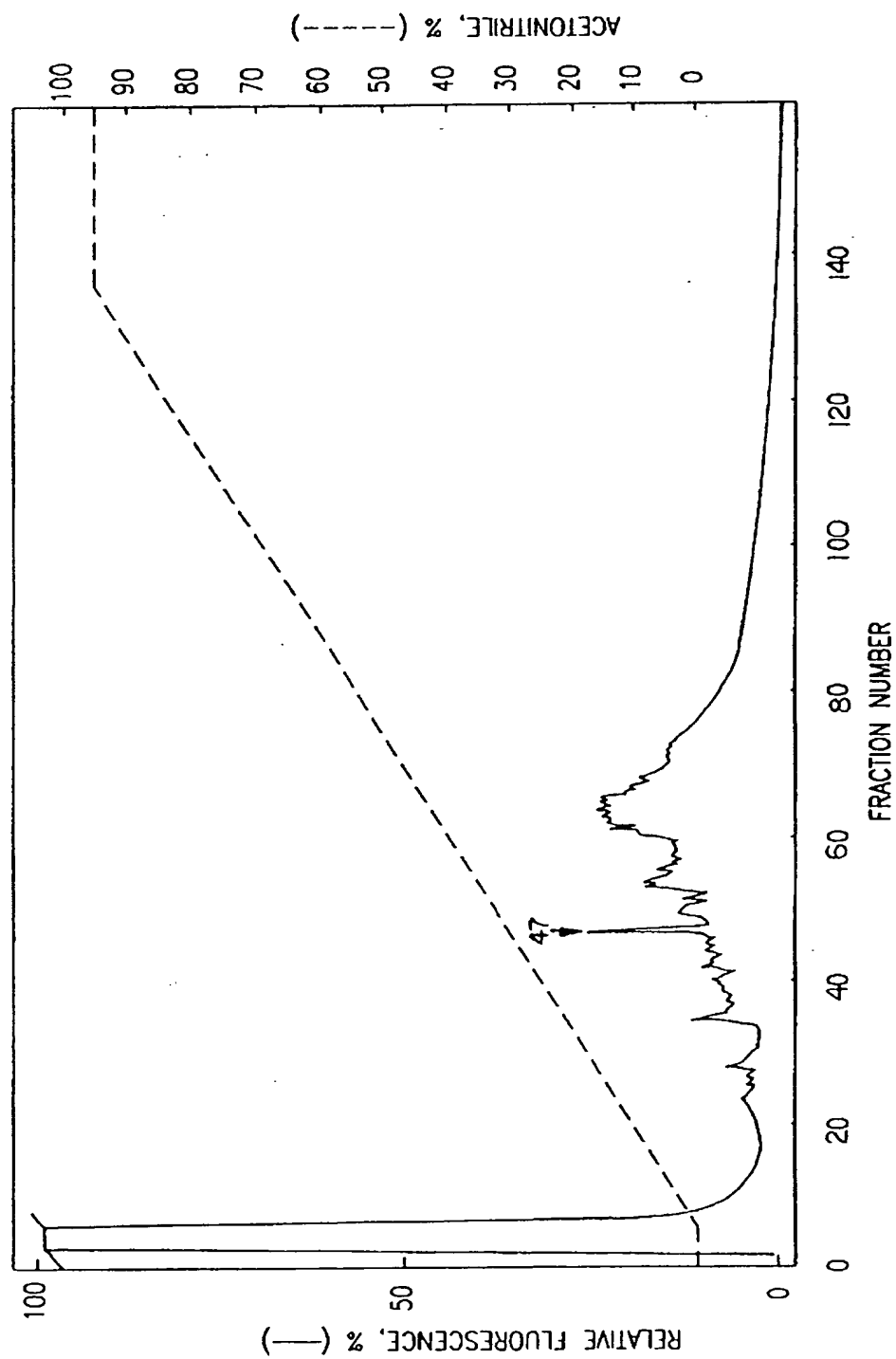
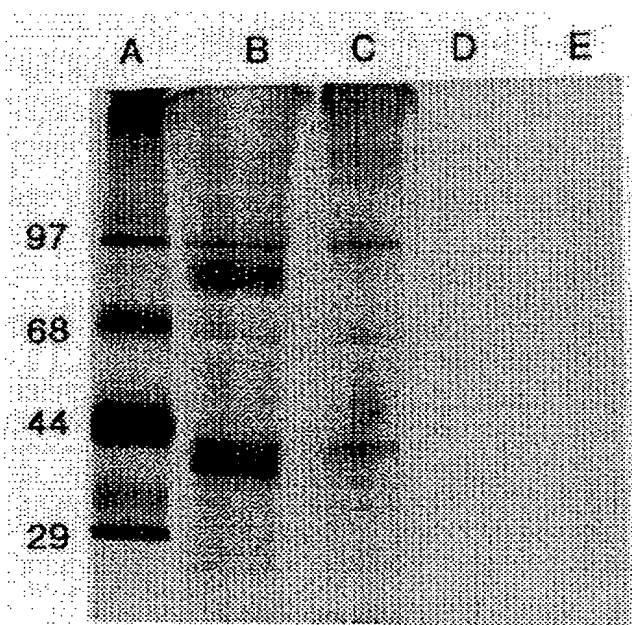


FIG. 23

**FIG. 24**

10			20			30			40			49			58			
GTTTCAGGGC			CATTGGACTC			TCCGTCCTGC			CCAGAGCAAG			> ATG MET	TGT Cys	CAC His	CAG Gln	CAG Gln	TTG Leu	GTC Val
67			76			85			94			103			112			
ATC Ile	TCT Ser	TGG Trp	TTT Phe	TCC Ser	CTG Leu	GTT Val	TTT Phe	CTG Leu	GCA Ala	TCT Ser	CCC Pro	CTC Leu	GTG Val	GCC Ala	ATA Ile	TGG Trp	GAA Glu	
121			130			139			148			157			166			
CTG Leu	AAG Lys	AAA Lys	GAT Asp	GTT Val	TAT Tyr	GTC Val	GTA Val	GAA Glu	TTG Leu	GAT Asp	TGG Trp	TAT Tyr	CCG Pro	GAT Asp	GCC Ala	CCT Pro	GGA Gly	
175			184			193			202			211			220			
GAA Glu	ATG MET	GTG Val	GTC Val	CTC Leu	ACC Thr	TGT Cys	GAC Asp	ACC Thr	CCT Pro	GAA Glu	GAA Glu	GAT Asp	GGT Gly	ATC Ile	ACC Thr	TGG Trp	ACC Thr	
229			238			247			256			265			274			
TTG Leu	GAC Asp	CAG Gln	AGC Ser	AGT Ser	GAG Glu	GTC Val	TTA Leu	GGC Gly	TCT Ser	GGC Gly	AAA Lys	ACC Thr	CTG Leu	ACC Thr	ATC Ile	CAA Gln	GTC Val	
283			292			301			310			319			328			
AAA Lys	GAG Glu	TTT Phe	GGA Gly	GAT Asp	GCT Ala	GGC Gly	CAG Gln	TAC Tyr	ACC Thr	TGT Cys	CAC His	AAA Lys	GGA Gly	GGC Gly	GAG Glu	GTT Val	CTA Leu	

FIG. 25a

337	346	355	364	373	382
AGC CAT TCG CTC CTG CTG CTT CAC AAA AAG GAA GAT GGA ATT TGG TCC ACT GAT					
Ser His Ser Leu Leu Leu Leu Leu His Lys Lys Glu Asp Gly Ile Trp Ser Thr Asp					
391	400	409	418	427	436
ATT TTA AAG GAC CAG AAA GAA CCC AAA AAT AAG ACC TTT CTA AGA TGC GAG GCC					
Ile Leu Lys Asp Gln Lys Lys Glu Pro Lys Asn Lys Thr Phe Leu Arg Cys Glu Ala					
445	454	463	472	481	490
AAG AAT TAT TCT GGA CGT TTC ACC TGC TGG TGG CTG ACG ACA ATC AGT ACT GAT					
Lys Asn Tyr Ser Gly Arg Phe Thr Cys Trp Tip Trp Leu Thr Thr Ile Ser Thr Asp					
499	508	517	526	535	544
TTG ACA TTC AGT GTC AAA AGC AGC AGA GGC TCT TCT GAC CCC CAA GGG GTG ACG					
Leu Thr Phe Ser Ser Val Lys Ser Ser Arg Gly Ser Ser Asp Pro Gln Gly Val Thr					
553	562	571	580	589	598
TGC GGA GCT GCT ACA CTC TCT TCT GCA GAG AGA GTC AGA GGG GAC AAC AAG GAG TAT					
Cys Gly Ala Ala Thr Leu Ser Ala Glu Arg Val Arg Gly Asp Asn Lys Glu Tyr					
607	616	625	634	643	652
GAG TAC TCA GTG GAG TGC CAG GAG GAC AGT GCC TGC CCA GCT GCT GAG GAG AGT					
Glu Tyr Ser Val Glu Cys Gln Glu Asp Ser Ala Cys Pro Ala Ala Glu Glu Ser					

FIG. 25b

661	670	679	688	697	706													
<u>CTG</u> <u>CCC</u> <u>ATT</u> <u>GAG</u> <u>GTC</u> <u>ATG</u> <u>GTG</u> <u>GAT</u> <u>GCC</u> <u>GTT</u> <u>CAC</u> <u>AAG</u> <u>CTC</u> <u>AAG</u> <u>TAT</u> <u>GAA</u> <u>AAC</u> <u>TAC</u>	Leu	Pro	Ile	Glu	Val	MET	Val	Ala	Val	His	Lys	Leu	Lys	Tyr	Glu	Asn	Tyr	
715	724	733	742	751	760													
<u>ACC</u> <u>AGC</u> <u>AGC</u> <u>TTC</u> <u>TTC</u> <u>ATC</u> <u>ATC</u> <u>AGG</u> <u>GAC</u> <u>ATC</u> <u>ATC</u> <u>AAA</u> <u>CCT</u> <u>GAC</u> <u>CCA</u> <u>CCC</u> <u>AAG</u> <u>AAC</u> <u>TTG</u>	Thr	Ser	Ser	Phe	Ile	Arg	Asp	Ile	Ile	Lys	Pro	Asp	Pro	Pro	Lys	Asn	Leu	
769	778	787	796	805	814													
<u>CAG</u> <u>CTG</u> <u>AAG</u> <u>CCA</u> <u>TTA</u> <u>AAG</u> <u>AAT</u> <u>TCT</u> <u>CGG</u> <u>CAG</u> <u>GTG</u> <u>GAG</u> <u>GTC</u> <u>AGC</u> <u>TGG</u> <u>GAG</u> <u>TAC</u> <u>CCT</u>	Gln	Leu	Lys	Pro	Leu	Lys	Asn	Ser	Arg	Gln	Val	Glu	Val	Ser	Trp	Glu	Tyr	Pro
823	832	841	850	859	868													
<u>GAC</u> <u>ACC</u> <u>TGG</u> <u>AGT</u> <u>ACT</u> <u>CCA</u> <u>CAT</u> <u>TCC</u> <u>TAC</u> <u>TTC</u> <u>TCC</u> <u>CTG</u> <u>ACA</u> <u>TTC</u> <u>TGC</u> <u>GTT</u> <u>CAG</u> <u>GTC</u>	Asp	Thr	Trp	Ser	Thr	Pro	His	Ser	Tyr	Phe	Ser	Leu	Thr	Phe	Cys	Val	Gln	Val
877	886	895	904	913	922													
<u>CAG</u> <u>GGC</u> <u>AAG</u> <u>AGC</u> <u>AAG</u> <u>AGA</u> <u>GAA</u> <u>AAG</u> <u>AAA</u> <u>GAT</u> <u>AGA</u> <u>GTC</u> <u>TTC</u> <u>ACG</u> <u>GAC</u> <u>AAG</u> <u>ACC</u> <u>TCA</u>	Gln	Gly	Lys	Ser	Lys	Arg	Glu	Lys	Lys	Asp	Arg	Val	Phe	Thr	Asp	Lys	Thr	Ser
931	940	949	958	967	976													
<u>GCC</u> <u>ACG</u> <u>GTC</u> <u>ATC</u> <u>TGC</u> <u>CGC</u> <u>AAA</u> <u>AAT</u> <u>GCC</u> <u>AGC</u> <u>ATT</u> <u>AGC</u> <u>GTG</u> <u>CGG</u> <u>GCC</u> <u>CAG</u> <u>GAC</u> <u>CGC</u>	Ala	Thr	Val	Ile	Cys	Arg	Lys	Asn	Ala	Ser	Ile	Ser	Val	Arg	Ala	Gln	Asp	Arg

FIG. 25c

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985	994	1003	1012	1021	1034
<p> <u>TAC TAT AGC TCA TCT TGG AGC GAA TGG GCA TCT GTG CCC TGC AGT TAGGTTCTGA</u> Tyr Tyr Ser Ser Ser Trp Ser Glu Trp Ala Ser Val Pro Cys Ser </p>					
1044	1054	1064	1074	1084	1094
1104					
<p> TCCAGGATGA AAATTGGAG GAAAAGTGGG AGATATTAAG CAAATGTTT AAAGACACAA CGGAATAGAC </p>					
1114	1124	1134	1144	1154	1164
1174					
<p> CCAAAAAGAT AATTCTATC TGATTGCTT TAAAACGTTT TTTTAGGATC ACAATGATAT CTTTGCTGTA </p>					
1184	1194	1204	1214	1224	1234
1244					
<p> TTTGTATAGT TAGATGCTAA ATGCATCATG AAACAATCAG CTAATTATG TATAGATTTT CCAGCTCTCA </p>					
1254	1264	1274	1284	1294	1304
1314					
<p> AGTTGCCATG GGCCTTCATG CTATTAAAT ATTAAAGTAA TTTATGTATT TATTAGTATA TTAAGTTAT </p>					
1324	1334	1344	1354	1364	1374
1384					
<p> TTAACGTTG TCTGCCAGGA TGTATGGAAT GTTTCATCT CTTATGACCT GATCCATCAG GATCAGTCCC TATTATGCAA AAT </p>					

FIG. 25d

10 20 30 40 50 60 70
 GAATTCCCAG AAAGCAAGAG ACCAGAGTCC CGGGAAAGTC CTGCCGCGCC TCGGGACAAT TATAAAAATG
 80 90 100 110 120 130 140
 TGGCCCCCTG GGTCAGCCTC CCAGCCACCG CCCTCACCTG CCGCGGCCAC AGGTCTGCAT CCAGCGGCTC
 150 160 169 178 187 196
 GCCCTGTGTC CCTGCAGTGC CGGCTCAGC > ATG TGT CCA GCG CGC AGC CTC CTC CTT GTG
 MET Cys Pro Ala Arg Ser Leu Leu Leu Val
 205 214 223 232 241 250
 GCT ACC CTG GTC CTC CTG GAC CAC CTC AGT TTG GCC AGA AAC CTC CCC GTG GCC
 Ala Thr Leu Val Leu Leu Asp His Leu Ser Leu Ala Arg Asn Leu Pro Val Ala
 259 268 277 286 295 304
 ACT CCA GAC CCA GGA ATG TTC CCA TGC CTT CAC CAC TCC CAA AAC CTG CTG AGG
 Thr Pro Asp Pro Gly MET Phe Pro Cys Leu His His Ser Gln Asn Leu Leu Arg
 313 322 331 340 349 358
 GCC GTC AGC AAC ATG CTC CAG AAG GCC AGA CAA ACT CTA GAA TTT TAC CCT TGC
 Ala Val Ser Asn MET Leu Gln Lys Ala Arg Gln Thr Leu Glu Phe Tyr Pro Cys
 367 376 385 394 403 412
 ACT TCT GAA GAG ATT GAT CAT GAA GAT ATC ACA AAA GAT AAA ACC AGC ACA GTG
 Thr Ser Glu Glu Ile Asp His Glu Asp Ile Thr Lys Asp Lys Thr Ser Thr Val

FIG. 26a

421					430					439					448					457					466
GAG	GCC	TGT	TTA	CCA	TTG	GAA	TTA	ACC	AAG	AAT	GAG	AGT	TGC	CTA	AAT	TCC	AGA								
Glu	Ala	Cys	Leu	Pro	Leu	Glu	Leu	Thr	Lys	Asn	Glu	Ser	Cys	Leu	Asn	Ser	Arg								
475				484				493				502				511				520					
GAG	ACC	TCT	TTC	ATA	ACT	AAT	GGG	AGT	TGC	CTG	GCC	TCC	AGA	AAG	ACC	TCT	TTT								
Glu	Thr	Ser	Phe	Ile	Thr	Asn	Gly	Ser	Cys	Leu	Ala	Ser	Arg	Lys	Thr	Ser	Phe								
529				538				547				556				565				574					
ATG	ATG	GCC	CTG	TGC	CTT	AGT	AGT	ATT	TAT	GAA	GAC	TTG	AAG	ATG	TAC	CAG	GTG								
MET	MET	Ala	Leu	Cys	Leu	Ser	Ser	Ile	Tyr	Glu	Asp	Leu	Lys	MET	Tyr	Gln	Val								
583				592				601				610				619				628					
GAG	TTC	AAG	ACC	ATG	AAT	GCA	AAG	CTT	CTG	ATG	GAT	CCT	AAG	AGG	CAG	ATC	TTT								
Glu	Phe	Lys	Thr	MET	Asn	Ala	Lys	Leu	Leu	MET	Asp	Pro	Lys	Arg	Gln	Ile	Phe								
637				646				655				664				673				682					
CTA	GAT	CAA	AAC	ATG	CTG	GCA	GTT	ATT	GAT	GAG	CTG	ATG	CAG	GCC	CTG	AAT	TTC								
Leu	Asp	Gln	Asn	MET	Leu	Ala	Val	Ile	Asp	Glu	Leu	MET	Gln	Ala	Leu	Asn	Phe								
691				700				709				718				727				736					
AAC	AGT	GAG	ACT	GTG	CCA	CAA	AAA	TCC	TCC	CTT	GAA	GAA	CCG	GAT	TTT	TAT	AAA								
Asn	Ser	Glu	Thr	Val	Pro	Gln	Lys	Ser	Ser	Leu	Glu	Glu	Pro	Asp	Phe	Tyr	Lys								
745				754				763				772				781				790					
ACT	AAA	ATC	AAG	CTC	TGC	ATA	CTT	CTT	CAT	GCT	TTC	AGA	ATT	CGG	GCA	GTG	ACT								
Thr	Lys	Ile	Lys	Leu	Cys	Ile	Leu	Leu	His	Ala	Phe	Arg	Ile	Arg	Ala	Val	Thr								

FIG. 26b

799				808				817			826
<u>ATT</u>	<u>GAC</u>	<u>AGA</u>	<u>GTG</u>	<u>ACG</u>	<u>AGC</u>	<u>TAT</u>	<u>CTG</u>	<u>AAT</u>	<u>GCT</u>	<u>TCC</u>	>
Ile	Asp	Arg	Val	Thr	Ser	Tyr	Leu	Asn	Ala	Ser	

836		846		856
TAAAAAGCGA GGTCCCTCCA AACCGTTGTC				

FIG. 26c

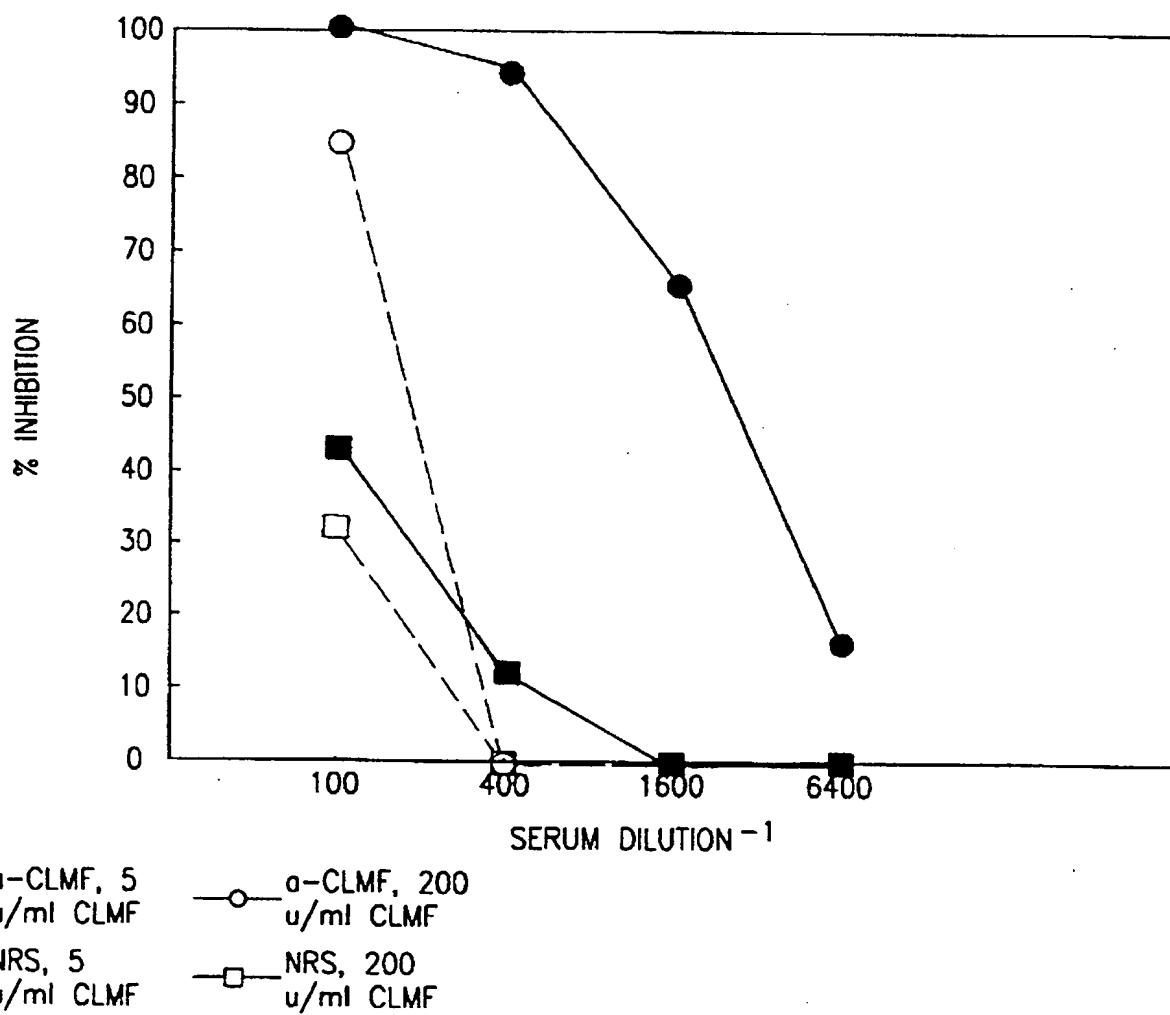


FIG. 27

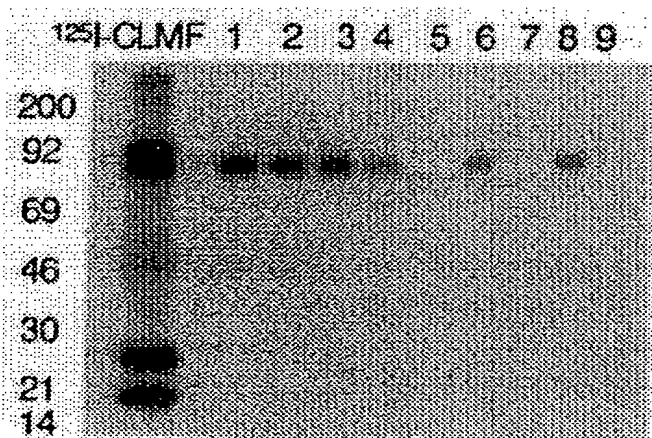


FIG. 28

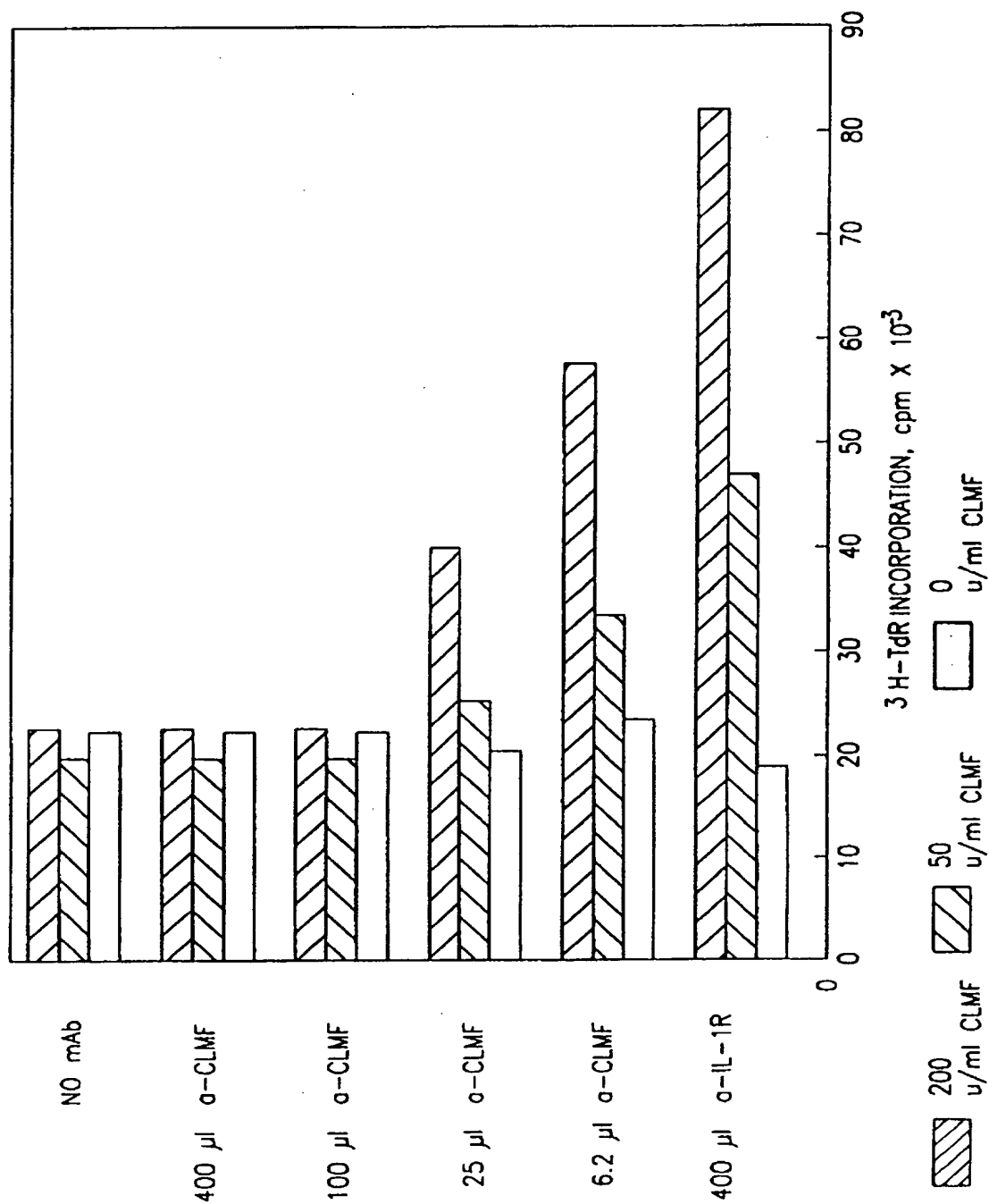


FIG. 29

SECRET

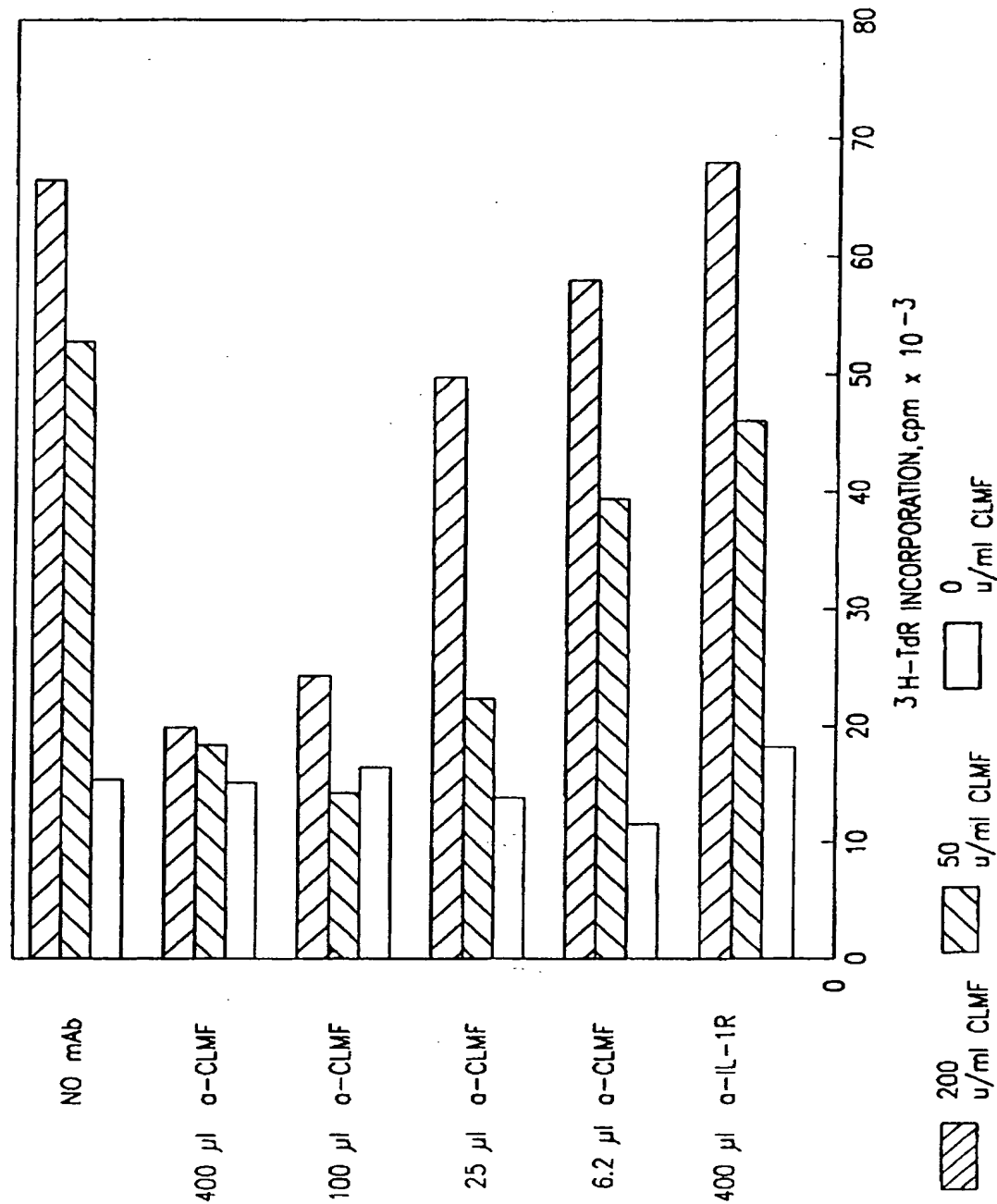


FIG. 30

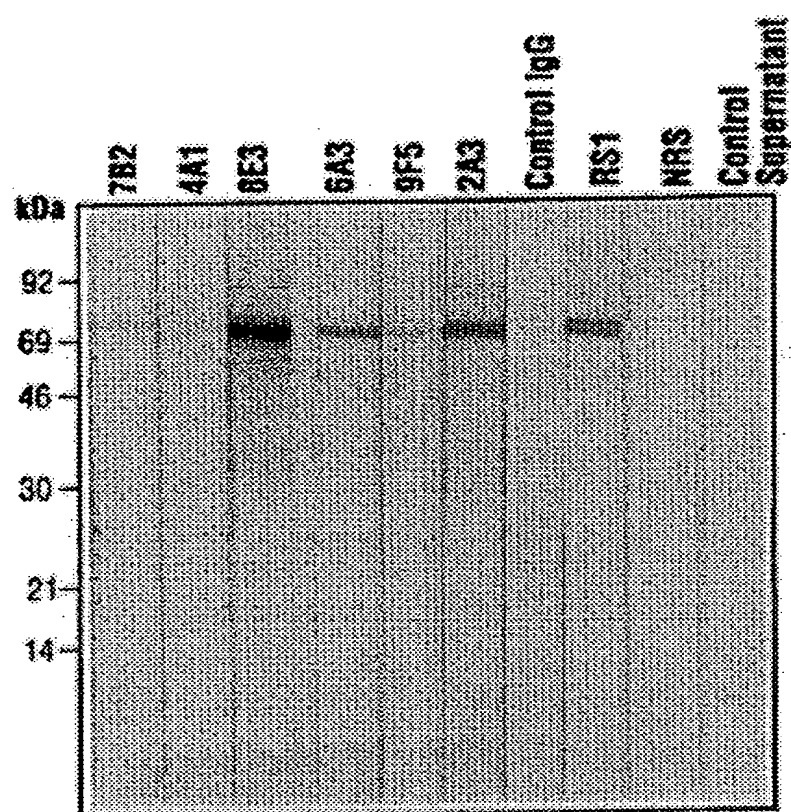
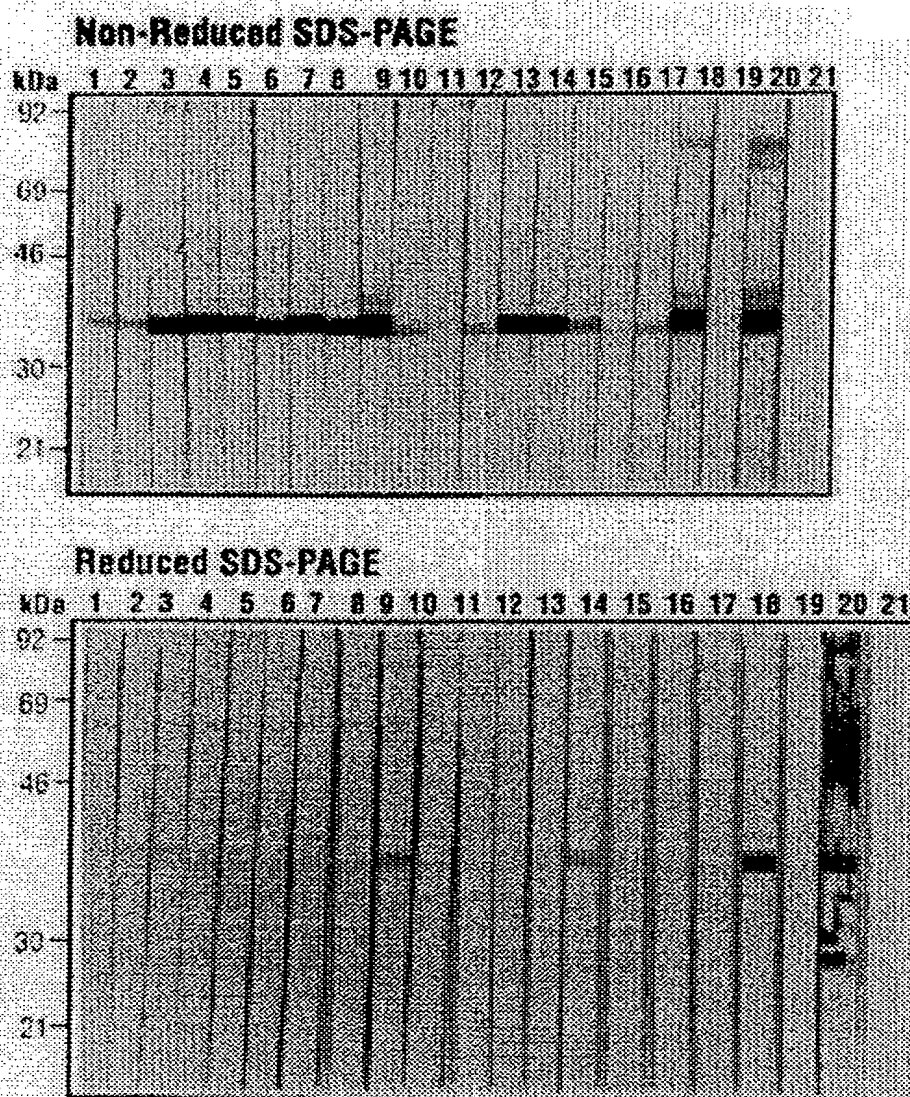


FIG. 31

**FIG. 32**

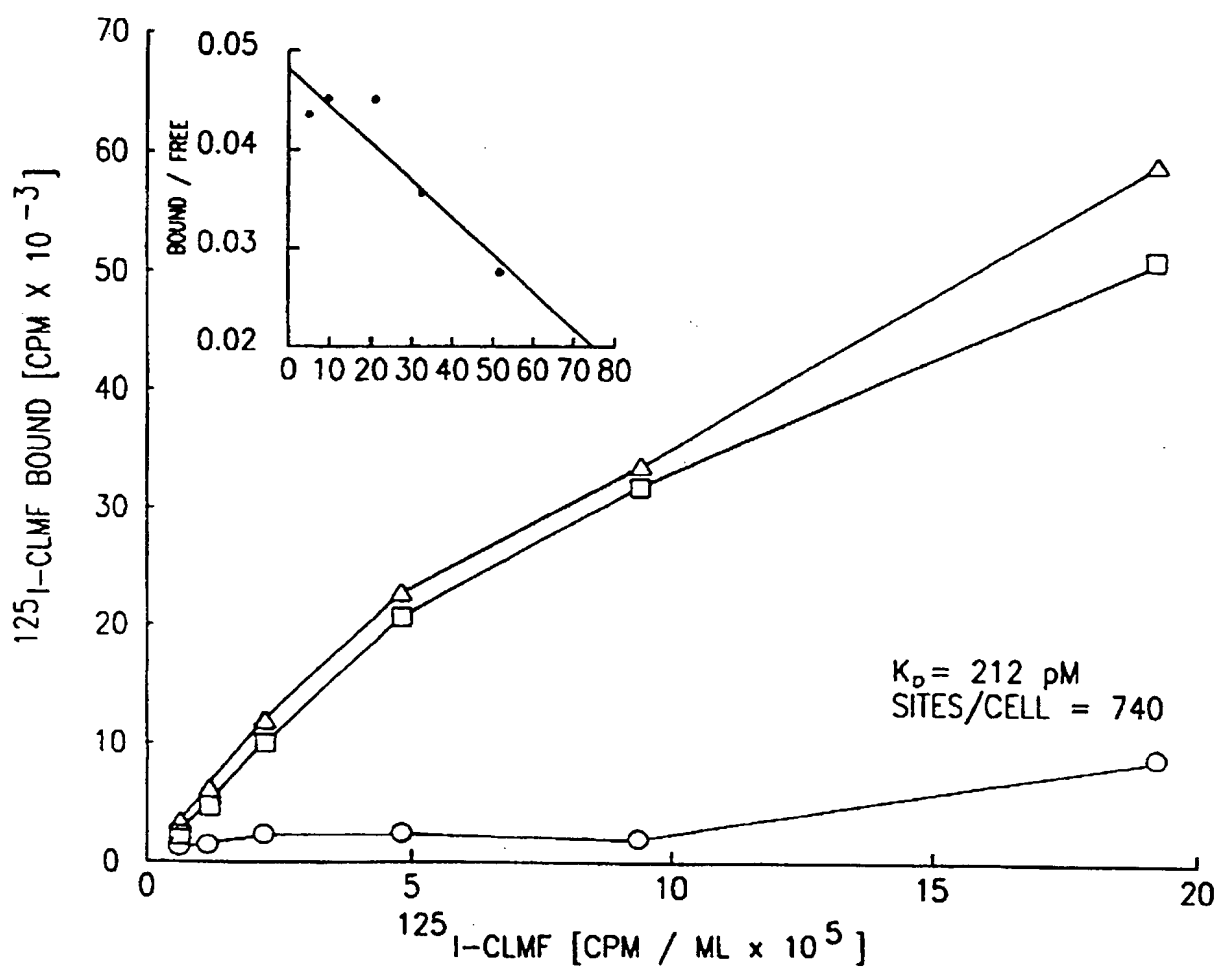


FIG. 33

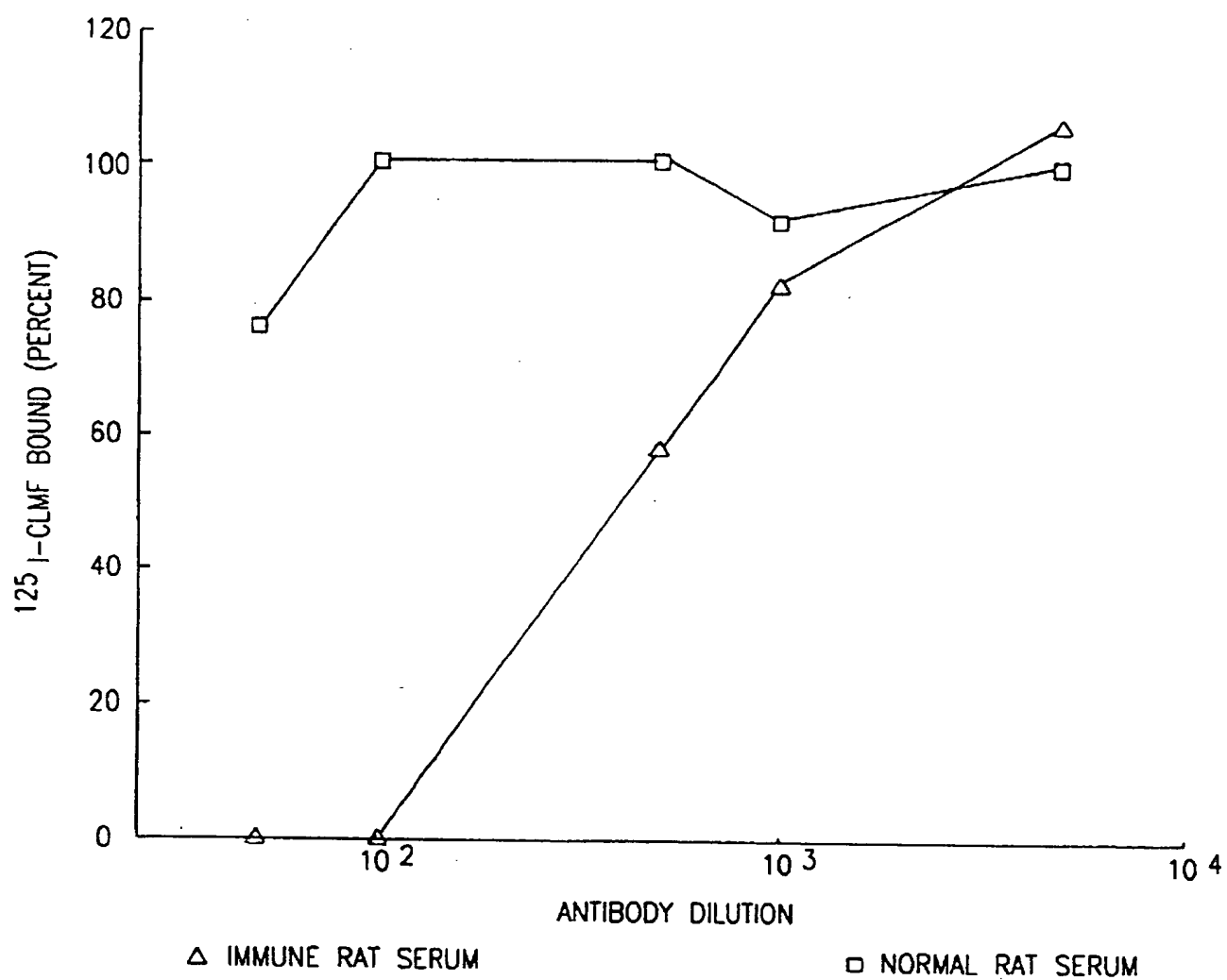


FIG. 34

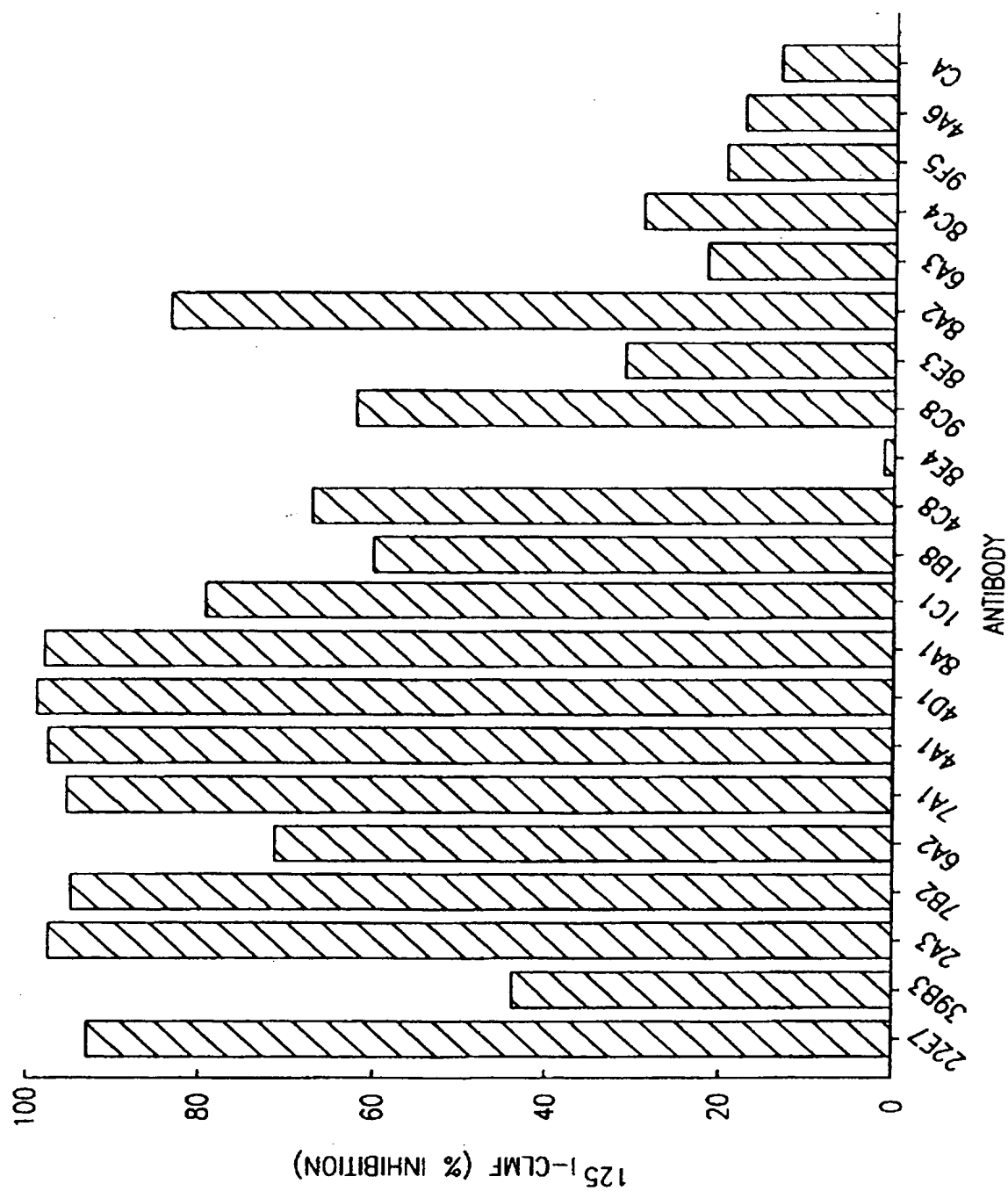


FIG. 35

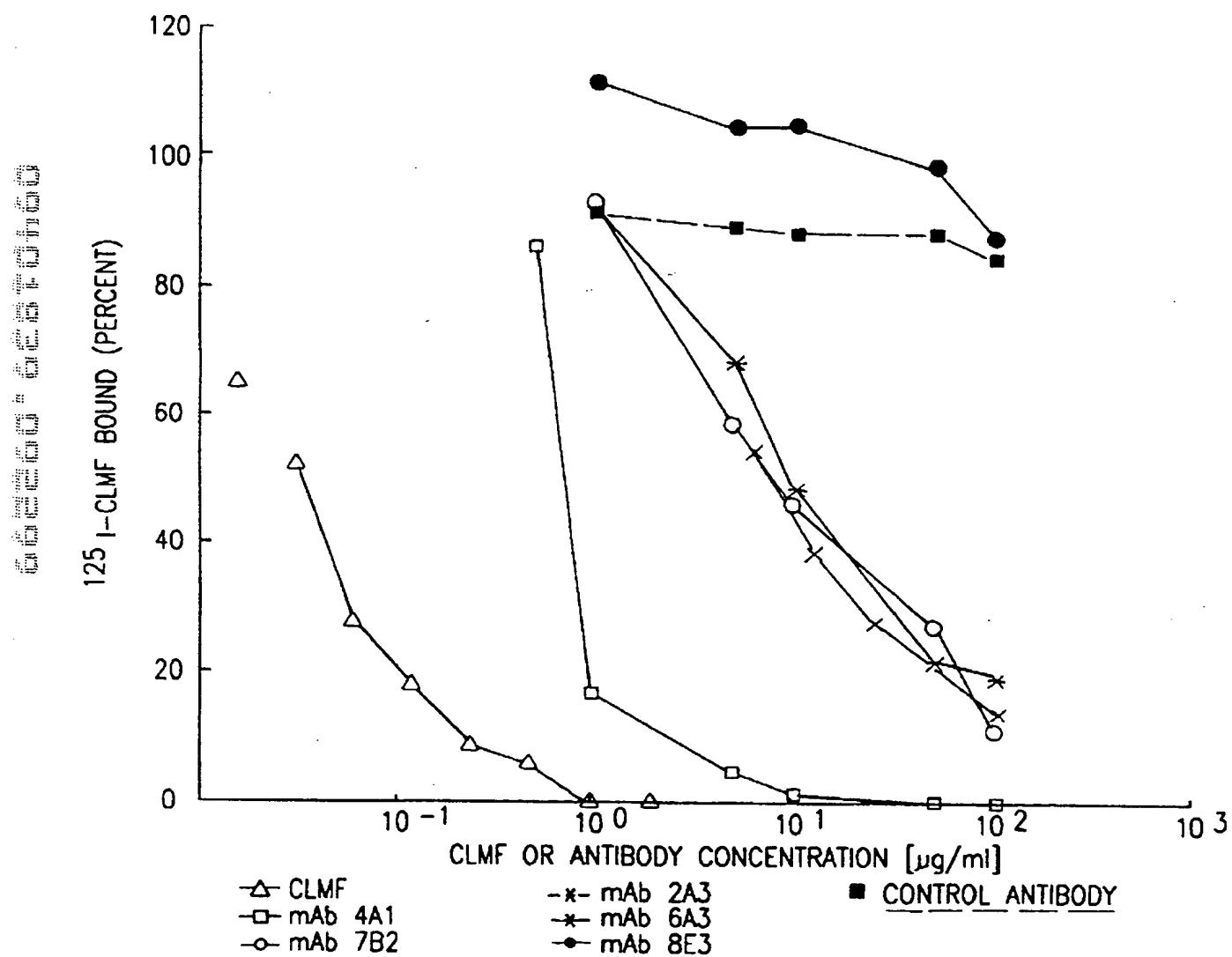


FIG. 36

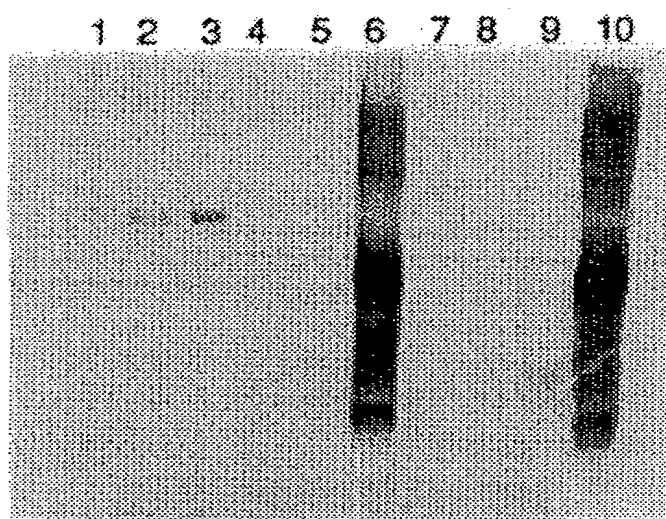


FIG. 37

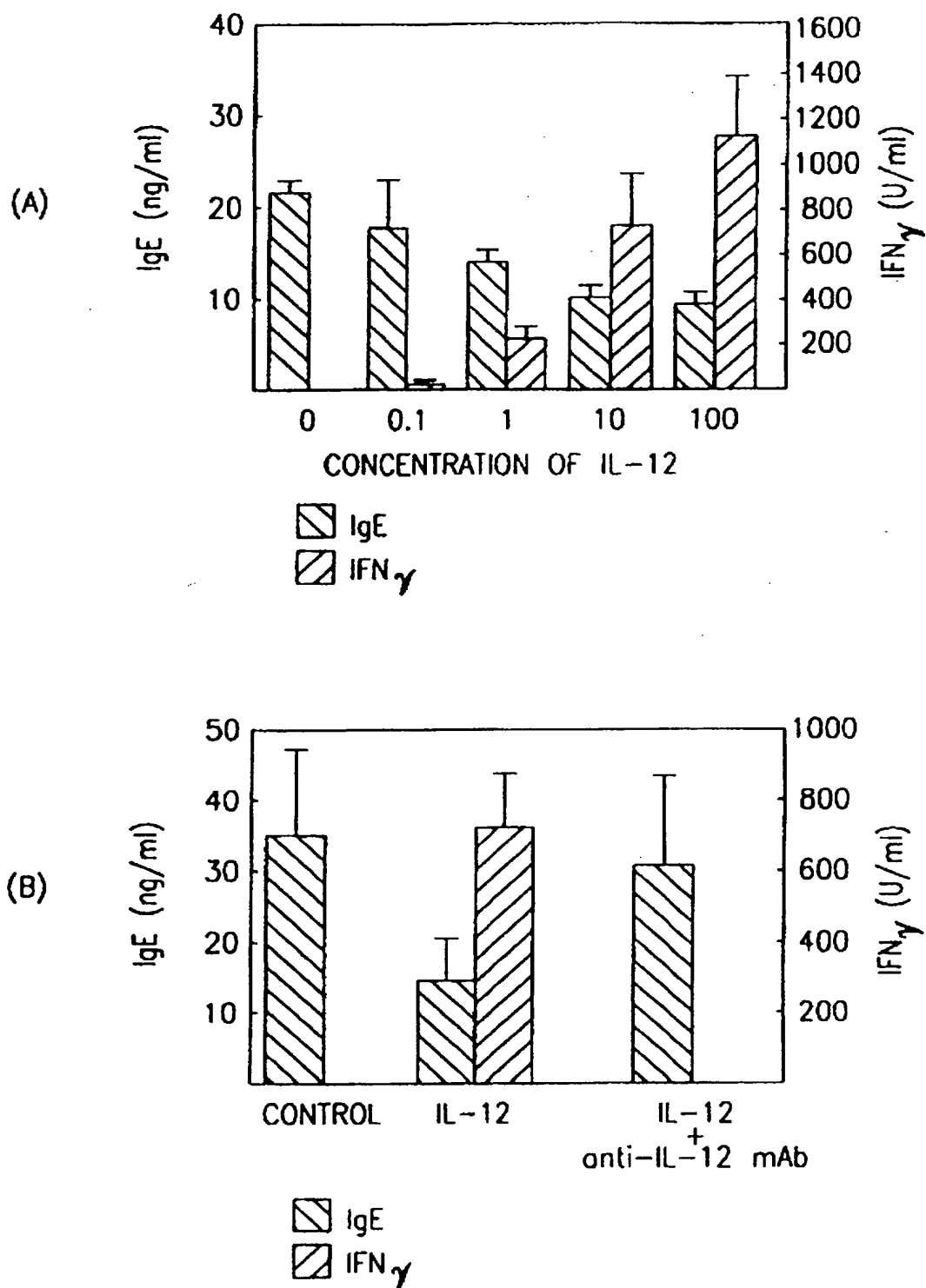
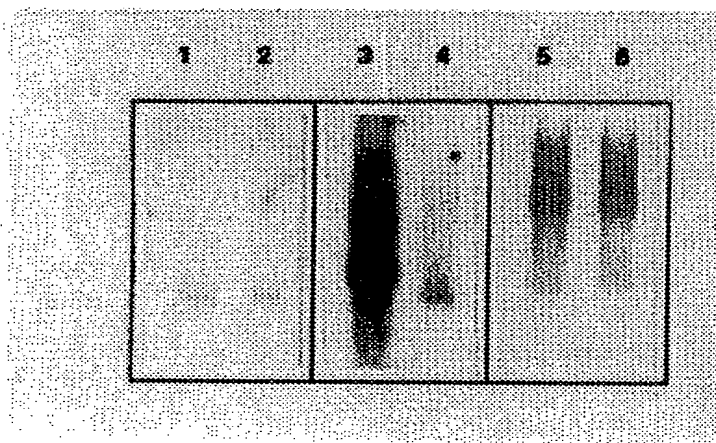


FIG. 38

**FIG. 39**